

# Resource Management Consultants

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November 20, 2009

Kathryn Hernandez United States EPA Region 8 Ref: 8EPR-EP 1595 Wynkoop St Denver, CO 80202

RE: Richardson Flat Phase 3 Task Completion Report - Transmittal Letter

Dear Ms. Hernandez:

On behalf of United Park City Mines Company, Resource Management Consultants, Inc. is submitting the following report to United States Environmental Protection Agency:

• Richardson Flat Phase 3 Task Completion Report.

Please feel free to contact myself or Jim Fricke at 801-255-2626 if you have any questions or require any additional information.

Best regards,

Todd Leeds

**RMC** 

Cc: Mo Slam, UDERR

Kerry Gee, UPCMC

# PHASE 3 TASK COMPLETION REPORT FOR 2009 CONSTRUCTION SEASON

# RICHARDSON FLAT TAILINGS SITE

EPA SITE ID: UT980952840

November 17, 2009

Prepared for:

United Park City Mines P.O. Box 1450 Park City, UT 84060

### Prepared by:

Resource Environmental Management Consultants d.b.a. RMC 8138 South State Street, Suite 2A Midvale, Utah 84047

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Prepared by:_	·	Date:	11-17-09
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-	Kathryn Hernandez USEPA Remedial Project Manager		
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### 1.0 INTRODUCTION

This Task Completion Report (TCR) details the work completed for the Phase 3 2009 Construction Season at Richardson Flat, ID UT980952840, located approximately two miles northeast of Park City, Utah. Phase 3 remedial features are presented in Figure 1-1. The remedy selected by United States Environmental Protection Agency (EPA) at the Richardson Flat Tailings Site (Site) was split into Tasks to facilitate remedy completion and bond release procedures. Phase 3 activities encompass Tasks 5 and 6 (Fig.1-1) as presented in the Remedial Design and Remedial Action Work Plan (RD/RA, RMC 2007a).

This is the third TCR submitted to EPA. The work completed as described in this TCR represents the third of at least four annual phases of construction. Each phase consists of individual or groups of tasks to be completed in single construction season. The Field Construction Plan (FCP) for Task 1 was submitted to EPA and approved on July 16, 2008. The Task Completion Report (TCR) for Task 1 was approved by EPA on July 16, 2008. The FCP for Phase 2, (2008 Construction Season) was submitted to EPA and approved on September 23, 2008. The Task Completion Report (TCR) for Phase 2 was approved by EPA on October 30, 2008. Construction procedures and methodologies documented in this report were described in the Phase 3 Field Construction Plan for 2009 Construction Season (Phase 3 FCP, RMC, 2009) which was approved by EPA on August 17, 2009.

A full description of Site background, investigative history, specifications, health and safety, design elements, project management and construction procedures are presented in the Remedial Design and Remedial Action Work Plan (RD/RA, RMC 2007a).

### 1.1 Work Performed

Work performed in the Phase 3 2009 Construction included:

### Task 5, Area B-1-W:

- 1) Relocation of the west portion of the South Diversion Ditch (SDD) from its historic alignment to a new location approximately 250 feet south. This activity resulted in removal of approximately 42,790 cubic yards of contaminated material;
- 2) A New Tailings Storage Area (Area B-1W-RP) was constructed and is located north of the newly relocated diversion ditch and encompasses the area of the old diversion ditch footprint.
- 3) Additional wetland and riparian areas were constructed along the banks of and associated with the newly relocated diversion ditch (Figure 1-1).
- 4) Grading and confirmation sampling approximately 29,800 cubic yards was moved in the grading operation; and

### Task 6, Area B-1-W:

- Contaminated sediments in the former South Diversion Ditch footprint were removed, drainage rock was placed and a PVC liner was installed over the drainage rock. Three feet of clay like soil was placed over the liner and machine compacted.
- 2) Placement of clean cover soil and revegetation after the completion of tailings placement.

### 1.1.1 Imported Soil Specifications

As required in the RD/RA work plan, cover and topsoil placed in upland areas contained less than 500 parts per million (ppm) lead and 100 ppm arsenic and topsoil placed in wetland areas, including the South Diversion Ditch, contained less than 310 ppm lead. Imported soil sample results are presented in Section 4.0 and Table 3.0.

### 2.0 WORK PROCEDURES

Work was conducted according to procedures presented in the Phase 3 Field Construction Plan for the 2009 Construction Season.

### 2.1 2009 Work Activities

Phase 3 2009 work activities in area B-1-W and the South Diversion Ditch (SDD) consisted of:

- Source removal;
- Creation of a new tailings repository;
- Relocation of the South Diversion Ditch;
- Placement and grading of low permeability cover soil, where required;
- Placement of topsoil, where required;
- Channel reconstruction, where required;
- Wetland construction, where required; and
- Wetland and upland revegetation.

Work conducted in Area B-1-W and the western portion of the SDD located downstream of the main diversion ditch crossing (Figure 1-1) was initiated by the construction of a new ditch and pond system in Area B-1-W. This ditch and pond system was used to replace the west portion of the SDD. Ditch construction began at the road crossing culvert and at the pond located at the terminus of the SDD (Figure 1-1). Upstream water was pumped around the construction area allowing excavation of the new ditch to progress from both ends.

Excavation of contaminated sediments was conducted in the former SDD. After the removal of contaminated sediments, drainage rock was placed to ensure movement of any subsurface water. The drainage rock was installed downstream to an existing

wetland. A 20 mil PVC liner was placed over the drainage rock to create a sealed system to ensure that fines would not impair movement of drain water. Three feet of clay soil was placed and machine compacted over the PVC liner. Tailings from the excavation of the new SDD were placed over the clay creating the new repository area.

Work in Area B-1-W was re-commenced upon the completion of SDD remediation, with the removal and or covering of tailings in the area located south of the diversion ditch and placement of tailings in the newly created repository area (Figure 1-1). One culvert was placed beneath the rail trail to connect one outlying wetland area to wetlands associated with the new South Diversion Ditch alignment (Figure 1-1). Tailings excavated from area B-1-W were placed in area B-1W-RP which previously contained the SDD. All areas containing tailings remaining in-place were covered in accordance with the RDRA. All wetland and upland areas were revegetated in accordance with the RDRA.

#### 2.2 Source Removal

Source removal work was conducted as specified in Section 6.0 of the RD/RA. The following work procedures were conducted:

- Excavation and construction areas were cleared and grubbed prior to the placement of
  materials. Clearing and grubbing included the removal of organic matter such as
  plants, trees and woody material, as well as any other material from the Site. Large
  non-organic materials such as boulders that interfered with grading were removed as
  required.
- 2) Appropriate dust control was conducted during all excavation, soil placement, transport and grading activities.
- 3) Air monitoring was undertaken during earthmoving activities, in accordance with procedures outlined in Section 11.1.1 or the RD/RA and Section 4.4.5 of the FSP. Air monitoring results are presented in Table 5.

- 4) Visible tailings materials were excavated from low-lying areas subject to seasonal ponding or interaction with shallow groundwater. Excavation extended to the visual interface between the tailings and native soils. Tailings excavation was guided using a field portable X-ray Fluorescence Meter (XRF). Excavation and transport was staged to avoid the re-contamination of clean areas.
- 5) Where mine waste was transported to and placed in the Impoundment, the material was graded to conform to general site topography prior to the placement of cover soils.
- 6) Surfaces and subgrades were graded to approximate final configurations and contours prior to cover and topsoil placement, if required. Subgrades and final graded surfaces were confirmed by conventional survey techniques where applicable.
- 7) Imported soils were screened with the XRF. A five sub-sample composite was collected for every 5,000 cyds and screened with the XRF. Greater than five-percent of the composite samples were submitted to the laboratory to confirm XRF results. All imported soil met the specifications in Section 1.1.1. with the exception of one sample that is further explained in Section 4.4. Sampling protocol and analytical methodologies are described in the Field Sampling Plan (FSP, RMC, 2007b). Imported soil XRF sample results are presented in Table 3. Lab-XRF QA/QC results are presented in Table 4.
- 8) Cover soils selected for use at the Site were low permeability, high clay content soils typical of those found in the region. Large rock material was avoided. Clay rich soils located on-site were used as cover material using the same criteria outlined in Section 6.1 of the RD/RA for quality control. A sizeable quantity of clean native materials excavated from the new diversion ditch and other areas were also used as on site cover material.

- 9) Cover soils placed at the Site were compacted with tracked or equivalent equipment. Compaction methods also included rolling and/or vibrating, as necessary. Cover soils were inspected and approved by United Park or its representatives prior to topsoil placement.
- 10) The final cover subgrade surface was uniform to allow for the placement of a consistent topsoil layer.

Note: Items 11 through 13 are referred to as General Topsoil Procedures.

- 11) Final surfaces, grades and erosion control structures were approved by United Park or its representative.
- 12) Topsoil was screened to remove particles greater than six inches and was suitable to support vegetation. Topsoil was placed to a minimum depth of six inches and contained sufficient organic matter and nutrients to promote revegetation.
- 13) The seedbed consisted of topsoil placed during remedial activities. Topsoil was lightly compacted and scarified. The seedbed was roughened prior to seeding.
- 14) Wetland construction consisted of additional grading and the construction of habitat features. Areas were excavated into the shallow water table to provide additional aquatic habitat. Wetland construction is discussed further in Section 2.3. Wetland construction in areas B-1-W and the South Diversion Ditch (Figure 1-1) was conducted to provide additional wetland habitat and to provide compensation for potential Natural Resource Damages.
- 15) Upland habitat was created adjacent to wetland areas in B-1-W by covering mine waste with at least eighteen inches and up to three feet of clay and topsoil. Upland construction is further discussed in Section 2.4 (Figure 1-1). Creation of upland

habitat was conducted to provide additional compensation for potential Natural Resource Damages.

- 16) Revegetative seeding and related activities were completed on all remediated areas (upland and wetland).
- 17) The upland seed mix included a mixture of deep-rooted annual and perennial native grass and forb species. The annual species provide rapid germination to aid in short term revegetation. The short-term revegetation will decrease the runoff potential of the slope and will keep the imported soil in place. Perennial species will provide longer term, more stable revegetation. Wetland areas were revegetated with wetland specific species. Appendix C of the RD/RA contains the seed specifications for the Site.
- 18) Completion confirmation sampling is detailed in Section 4.0.

### 2.3 Cover Placement

Cover placement was conducted as specified in Section 6.0 of the RD/RA. The following work procedures were conducted:

- Dust control measures were implemented during all excavation, soil placement, transport, and grading activities. Water was applied to work surfaces and haul roads as dust control.
- 2) Surfaces and subgrades were graded to approximate final configurations and contours prior to cover and topsoil placement. Subgrades and final graded surfaces were confirmed by conventional survey techniques where applicable.
- 3) Imported soils were screened with the X-ray Fluorescence meter (XRF). In addition, five sub-sample composite samples were collected for every 5,000 cyds and sampled

with the XRF. Five percent of XRF-sampled imported soil samples were submitted to the laboratory for QA/QC lead and arsenic analysis. All imported soil met the specifications in Section 1.1.1. Sampling was conducted in accordance with protocols and analytical methodologies as described in the FSP. Sample results are presented in Section 4.0. Imported soil XRF sample results are presented in Table 3. Lab-XRF OA/OC results are presented in Table 4.

- 4) Cover soils selected for use at the Site were low permeability, high clay content soils typical of those found in the region. Large rock material was removed prior to placement. Clay rich soils from an on-Site stockpile were used as cover material using the same criteria outlined in Section 6.1 of the RD/RA and Section 2.2 of the Phase 2 FCP for quality control.
- 5) Cover soils placed at the Site were compacted with tracked or equivalent equipment. Compaction methods also included rolling and/or vibrating, as necessary. Cover soils were inspected and approved by United Park or its representatives prior to topsoil placement.
- 6) The final cover subgrade was graded to allow for the placement of a consistent topsoil layer.
- 7) Final surfaces, grades and erosion control structures were approved by United Park or its representative.
- 8) Completion confirmation sampling is detailed in Section 4.0.
- 9) Topsoil was screened to remove particles greater than six inches and was suitable to support vegetation. Topsoil was placed to a minimum depth of six inches and contained sufficient organic matter and nutrients to promote revegetation.
- 10) The seedbed consisted of topsoil placed during remedial activities. Topsoil was

lightly compacted and scarified. The seedbed was roughened prior to seeding.

- 11) Wetland construction consisted of additional grading and the construction of habitat features. Wetland construction is discussed further in Section 2.3. Wetland construction in area F-8 (Figure 1-1) was conducted to provide additional wetland habitat and to provide Natural Resource Damage offsets if any.
- 12) Revegetative seeding and related activities were completed on all remediated areas (upland and wetland).
- 13) The upland seed mix included a mixture of deep-rooted annual and perennial native grass and forb species. The annual species provide rapid germination to aid in short term revegetation. The short-term revegetation will decrease the runoff potential of the slope and will keep the imported soil in place. Perennial species will provide longer term, more stable revegetation. Wetland areas were revegetated with wetland specific species. Appendix C of the RD/RA contains the seed specifications for the Site.

### 2.4 Wetland Construction

Wetland construction in areas B-1-W and the South Diversion Ditch (Figure 1-1) was conducted to provide additional wetland habitat and to provide compensation to any potential Natural Resource Damages. Constructed wetland features included:

- Habitat islands;
- Excavation and grading to provide open water habitat;
- Transitional shoreline areas;
- Flow direction structures including dikes and swales;
- Topsoil placement; and
- Revegetation with wetland specific seed mix and plant species.

All wetland construction procedures were conducted in accordance with the procedures described in Section 2.2. All materials used in wetland construction meet the specifications described in Section 1.1.1 and Section 6.0 of the RD/RA.

### 2.5 Upland Construction

Upland construction in areas of B-1-W and the South Diversion Ditch (Figure 1-1) was conducted to provide additional upland habitat and to provide compensation to any potential Natural Resource Damages. Constructed upland features included:

- Upland habitat;
- Excavation and grading to provide upland habitat;
- Transitional upland areas;
- Topsoil placement; and
- Revegetation with upland specific seed mix and plant species.

All upland construction procedures were conducted in accordance with the procedures described in Section 2.2 and 2.3. All materials used in upland construction meet the specifications described in Section 1.1.1 and Section 6.0 of the RD/RA.

### 3.0 STORMWATER MANAGEMENT

Stormwater management was undertaken to:

- Reduce the potential for off-Site migration of sediments, soil and tailings; and
- Eliminate the re-contamination of areas that have been covered or have undergone source removal.

General stormwater management elements included:

- Berms, wattle and/or silt fencing was placed as required to prevent the migration of materials from work areas;
- Sediment barriers and berms were placed in the South Diversion Ditch to capture sediment and prevent downstream migration.
- Hay or straw bale barriers were placed in appropriate ephemeral channel features that drain from work areas. The hay bales were placed downgradient from the silt fence or wattle barriers;
- A supply of hay or straw bales and wattle material was stored on-site during construction; and
- Stormwater runoff protection measures will remain in-place until revegetation efforts are complete.

General procedures to reduce the tracking of contaminated materials into uncontaminated areas included:

- All trucks and equipment working in contaminated materials (e.g. tailings and sediments) were decontaminated prior to working with clean materials.
   Decontamination procedures are described in Section 11.8 of the RD/RA;
- A stabilized construction entrance was used to remove gross contamination from trucks hauling tailings;
- All trucks and equipment were decontaminated prior to leaving the Site; and
- Dust control measures were implemented as necessary as described in Section 11.1.1 of the RD/RA.

Specific stormwater runoff protection elements implemented prior to and during construction included:

 Work areas in the SDD were isolated with a series of berms constructed from clean soil. Surface water was pumped from each area prior to and during excavation.

### 4.0 COMPLETION CONFIRMATION

Completion of work is based upon confirmation that the following Phase 3 2009 Construction Season Completion Milestones are complete:

- 1) Source removal is complete in the Area B-1-W and the west portion of the South Diversion Ditch;
- 2) Cover placement is complete in Area B-1-W;
- 3) Reclamation (surface grading and drainage control) is complete;
- 4) Wetland construction is complete; and
- 5) Confirmation samples verify source removal and cover installation meets specifications.

### 4.1 Areas B-1-W and South Diversion Ditch

Source removal in these areas was confirmed using the following methodology:

- Confirmation sampling for lead and arsenic in upland areas.
- Confirmation sampling for lead in wetland areas.

Cover placement Area B-1-W was confirmed using the following methodology:

 Cover thickness confirmation sampling for lead and arsenic concentrations up to a depth of eighteen inches.

Confirmation data was collected on a grid located on 200-foot centers. The South Diversion Ditch was sampled on 100-foot centers. Sample locations are presented on Figure 4-1. Source removal confirmation results are presented in Table 1. Cover depth confirmation sample results are presented in Table 2.

### 4.2 Source Removal Confirmation

Source removal confirmation requirements are set forth in Sections 1.1 and 3.0 of the Field Sampling Plan (FSP, RMC, 2007c). Source removal confirmation samples were collected at forty-one locations. Samples were analyzed with the XRF. Five XRF-sampled confirmation samples were submitted to the laboratory for QA/QC analysis. Source removal confirmation results are presented in Table 1. QA/QC sample results are presented in Table 4. The sampling results meet applicable standards and requirements for source removal.

#### 4.2.1 Area B-1-W

As provided in the RD/RA, (RMC, 2007a), lead concentrations for source removal in Area B-1-W were set at 500 parts per million (ppm) for soils and 310 ppm for sediments. Average lead concentrations for all source removal confirmation samples in Area B-1-W were 151.4 ppm. Lead concentrations ranged from 68.1-396 ppm. Source removal sample results from this area are presented on Table 1. Source removal sample locations are presented on Figure 4-1.

### 4.2.3 SDD

As provided in the RD/RA, (RMC 2007a), lead concentrations for source removal in the South Diversion Ditch (SDD) were set at were set at 500 ppm for soils and 310 ppm for sediments. Average lead concentrations for all source removal confirmation samples in the SDD were 108.3 ppm. Lead concentrations ranged from <64 to 203 ppm. Source removal sample results for this area are presented on Table 1. Source removal sample locations are presented on Figure 4-1.

### 4.3 Cover Thickness Confirmation

As provided in the RD/RA, (RMC 2007a), minimum depths for cover materials were to be confirmed by methods described in the FSP (RMC, 2007c). In accordance with these verification standards, the thickness of clean cover was measured at thirteen locations in B-1-W. Cover sample depths and XRF results are presented are presented in Table 2. The results indicate that cover placement is complete and all areas measured contain at least eighteen inches of cover as specified in the RD/RA and Phase 2 FCP.

### 4.4 Imported Soil Sampling

As provided in the RD/RA, (RMC 2007a), imported soils were to be screened by using procedures described in the FSP (RMC, 2007c). In accordance with these standards, imported soil sources were screened with the XRF; in addition, five sub-sample composite samples were collected for every 5,000 cyds of imported soil. Two imported soil samples were sampled with the XRF and three imported soil samples were submitted to the laboratory for lead and arsenic analysis. Imported soil sample results are presented in Table 3. All cover and topsoil used in upland areas contained less than 500 ppm lead and 100 ppm arsenic. There was one exception to the above results, sample SLB1W-1, was collected on October 13, 2009 from a stock pile of topsoil contained 1,200 ppm lead (Table 3). By the time analytical results were available the topsoil was spread near cover sample location 3H. Followup XRF and laboratory sampling indicated that the offspecification soil was no longer off-specification. Five XRF and two laboratory samples were collected in this area with an average lead concentration of 111 ppm. All cover and topsoil used in wetland areas contained less than 310 ppm lead. Sampling was conducted in accordance with protocols and analytical methodologies as described in the FCP and FSP.

### 4.5 QA/QC Sampling

In accordance with the QA/QC Plan presented in the FSP (RMC, 2007c), three of thirty-eight source removal and two of thirty-nine cover depth confirmation samples were submitted to American West Analytical Laboratories for XRF-Lab confirmation. Duplicate laboratory samples were also submitted. This exceeds the five-percent QA/QC criteria specified in the FSP. The laboratory samples contained 9.5 to 190 ppm lead. Relative percent differences for XRF and laboratory results ranged from 9.53% to 135.4% for lead. The high RPD values are related to the low metals concentrations in the soil samples analyzed, a small difference in low concentrations will lead to a high RPD. QA/QC sample results are presented in Table 4.

Two duplicate soil samples were submitted to American West Analytical Laboratories for QA/QC. Analytical laboratory lead concentrations ranged from 9.9 to 150 ppm. Relative percent differences for duplicate samples ranged from 23.5% to 34.3%. The high RPD values are related to the low metals concentrations in the soil samples analyzed, a small difference in low concentrations will lead to a high RPD. QA/QC sample results are presented in Table 4.

### 4.7 Air Monitoring

In accordance with Section 4.4.5 of the FSP (RMC, 2007c), six air samples were collected from site workers. Lead concentrations ranged from <0.390 ug/m3 to 2.434 ug/m3. Three of the six samples contained lead concentrations below laboratory detection limits, an average was not calculated. These levels are significantly below the OSHA Action Level and PEL for lead of 30 ug/m3 and 50 ug/m3, respectively. Six offsite ambient air samples were also collected upwind and downwind of the Site, in accordance with Section 4.4.5 of the FSP (RMC, 2007c). Lead concentrations ranged from <0.354 ug/m3 to <0.692 ug/m. All samples contained lead concentrations below laboratory

detection limits, an average was not calculated. These levels are significantly below the National Ambient Air Quality Standard for lead of 1.5 ug/m3, quarterly average.

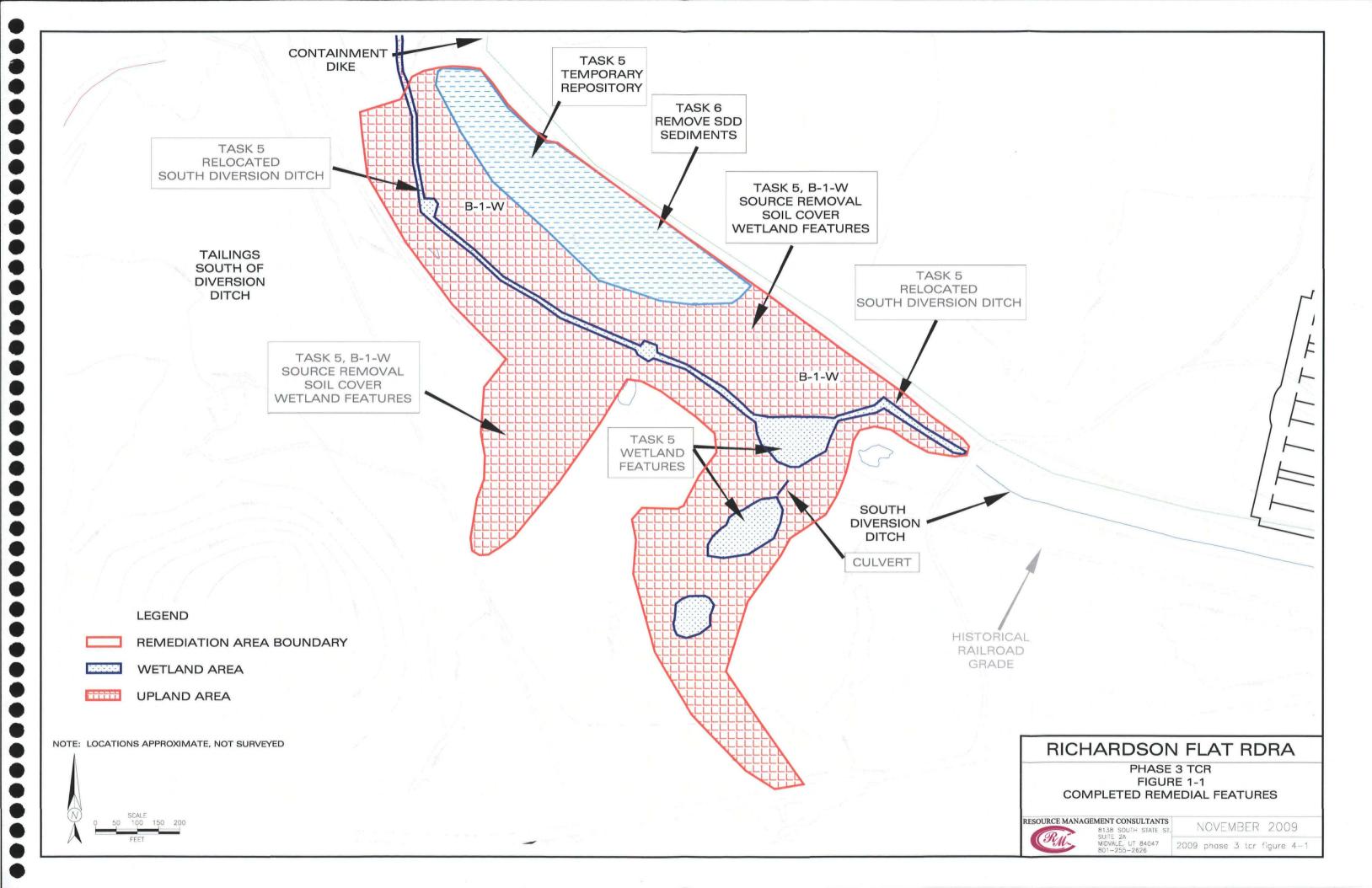
### 5.0 REFERENCES

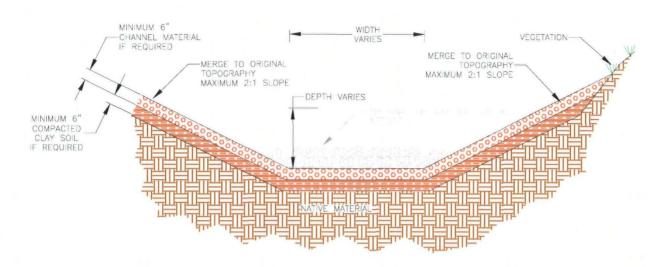
Resource Management Consultants, Inc (RMC), 2007a, Remedial Design/Remedial Action Plan (RD/RA), Richardson Flat, Site ID Number: UT980952840, With Attached Work Plan.

Resource Management Consultants, Inc (RMC), 2007b, Phase 2 Field Construction Plan for 2008 Construction Season, Richardson Flat, Site ID Number: UT980952840.

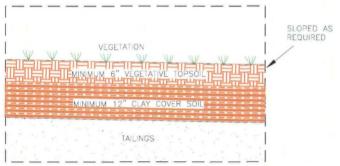
Resource Management Consultants, Inc (RMC), 2007c, Field Sampling Plan, Remedial Investigation, Richardson Flat, Site ID Number: UT980952840, With Attached Work Plan.

Resource Management Consultants, Inc (RMC), 2007c, Health and Safety Policy, Remedial Investigation, Richardson Flat, Site ID Number: UT980952840, With Attached Work Plan.





### CHANNEL CONSTRUCTION TYPICAL DETAILS



COVER SOIL
TYPICAL DETAILS



TOPSOIL
TYPICAL DETAILS

# RICHARDSON FLAT RDRA

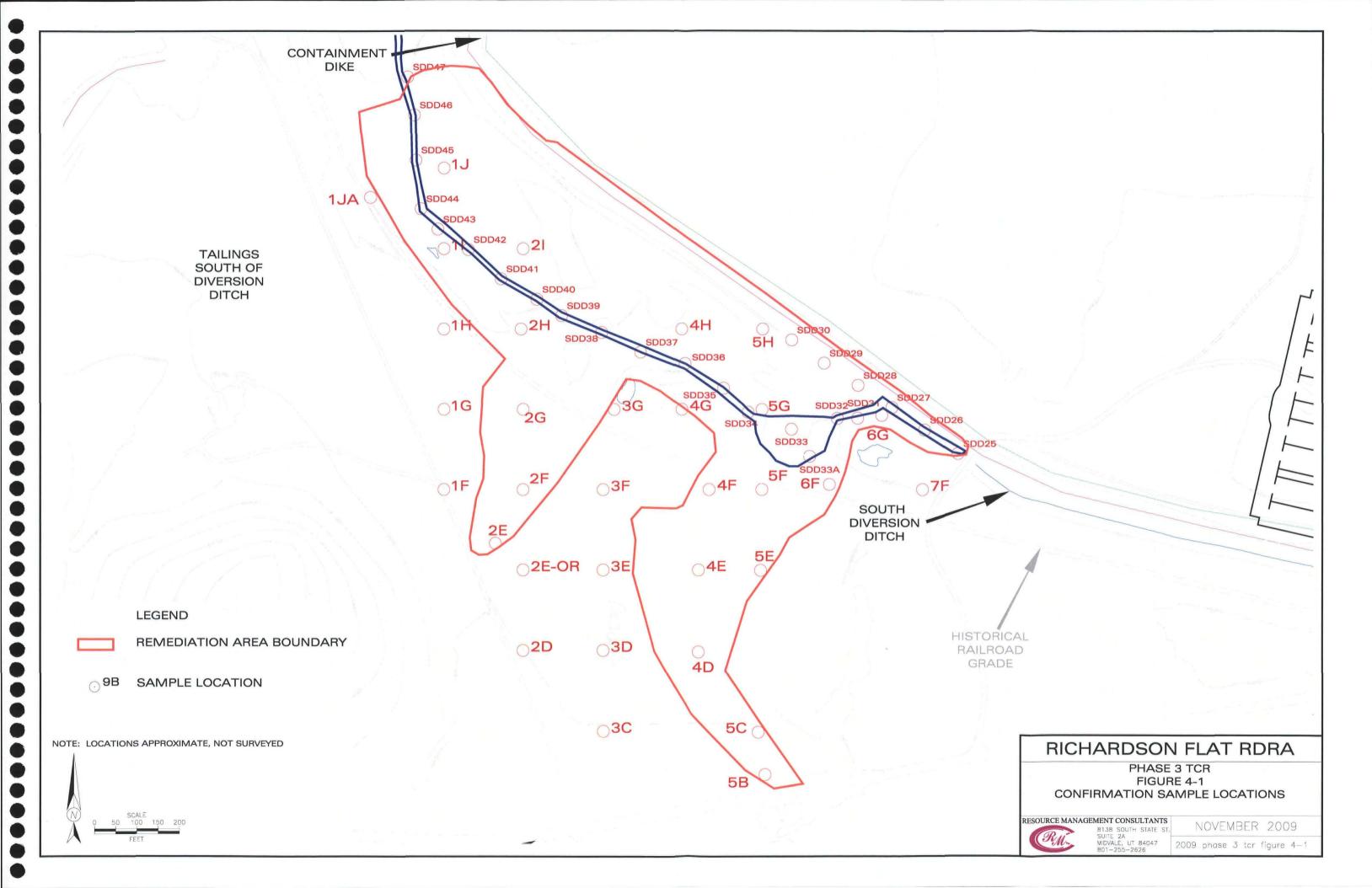
PHASE 3 TCR FIGURE 2-1 CHANNEL AND SOIL COVER TYPICALS

RESOURCE MANAGEMENT CONSULTANTS



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phase 3 tcr fig 2-1.dwg



## Table 1 - Source Removal Confirmation Sample Results

# All Results ppm

### B-1-W

Date	Sample ID	Pb	Method
27-Aug-09	SL-4G	399	XRF
27-Aug-09	SL-4F	170	XRF
27-Aug-09	SL-5F	92	XRF
27-Aug-09	SL-4E	191	XRF
27-Aug-09	SL-3E	396	XRF
27-Aug-09	SL-3G	75	XRF
2-Sep-09	SL-6F	58	XRF
2-Sep-09	SL-6G	131	XRF
2-Sep-09	SL-5E	284	XRF
24-Sep-09	SI-1I	89	XRF
24-Sep-09	SL-1G	<67.6	XRF
24-Sep-09	SL-1F	77.2	XRF
24-Sep-09	SL-2H	142	XRF
24-Sep-09	SL-JA	58.6	XRF
24-Sep-09	SL-IH	168	XRF
11-Nov-09	SL-4D	87.5	XRF
11-Nov-09	SL-5D	68.1	XRF
11-Nov-09	SL-5B	87.4	XRF
	Range:	68.1-396	

Range: 68.1-396 Mean: 151.4

### SDD

Dete	Camania ID	Dh	Matha
Date	Sample ID	Pb	Method
8-Jul-09	SDD-25	163.9	XRF
8-Jul-09	SDD-26	170.5	XRF
8-Jul-09	SDD-27	120.3	XRF
8-Jul-09	SDD-28	162.9	XRF
8-Jul-09	SDD-29	197.2	XRF
8-Jul-09	SDD-30	189.7	XRF
26-Oct-09	SDD-31	83	XRF
26-Oct-09	SDD-32	97.3	XRF
26-Oct-09	SDD-33	78	XRF
26-Oct-09	SDD-33a	<64	XRF
26-Oct-09	SDD-34	68	XRF
26-Oct-09	SDD-35	61.3	XRF
26-Oct-09	SDD-36	60.6	XRF
26-Oct-09	SDD-37	67.3	XRF
26-Oct-09	SDD-38	59.7	XRF
26-Oct-09	SDD-39	66.7	XRF
26-Oct-09	SDD-40	77	XRF
26-Oct-09	SDD-41	112.3	XRF
26-Oct-09	SDD-42	203	XRF
26-Oct-09	SDD-43	95	XRF
26-Oct-09	SDD-44	77.7	XRF
26-Oct-09	SDD-45	94	XRF
26-Oct-09	SDD-46	89.7	XRF
26-Oct-09	SDD-47	95.3	XRF
F 10 Style 3 Ft	Danger	-C4 202	

Range: <64-203 Mean: 108.3

### Table 2 - Cover Depth Confirmation Sample Results

### All Results ppm

### Cover

Date	Sample ID	Sample Depth	Pb	As	Method
16-Oct-09	1J	6"	239	BDL	XRF
		12"	122	BDL	XRF
		18"	164	BDL	XRF
16-Oct-09	21	6"	103	BDL	XRF
		12"	122	BDL	XRF
		18"	141	BDL	XRF
14-Aug-09	5G	6"	92.7	BDL	XRF
		12"	<71	BDL	XRF
355 E		18"	57.1	BDL	XRF
26-Oct-09	3D	6"	108	BDL	XRF
		12"	94	BDL	XRF
		18"	87	BDL	XRF
26-Oct-09	3C	6"	<88>	BDL	XRF
100		12"	<81	BDL	XRF
		18"	<89	BDL	XRF
26-Oct-09	2D	6"	152	BDL	XRF
		12"	145	BDL	XRF
		18"	97	BDL	XRF
26-Oct-09	2E-OR	6"	120	BDL	XRF
		12"	68	BDL	XRF
		18"	75	BDL	XRF
26-Oct-09	3F	6"	106	BDL	XRF
		12"	63	BDL	XRF
		18"	57	BDL	XRF
26-Oct-09	5H	6"	240	BDL	XRF
3.50		12"	209	BDL	XRF
		18"	118	BDL	XRF
26-Oct-09	7F	6"	173	BDL	XRF
		12"	201	BDL	XRF
		18"	127	BDL	XRF
13-Nov-09	2E	6"	273.6	BDL	XRF
		12"	143.2	BDL	XRF
5 B		18"	73.6	BDL	XRF
13-Nov-09	2F	6"	89.2	BDL	XRF
		12"	97.2	BDL	XRF
		18"	79.3	BDL	XRF
13-Nov-09	2G	6"	<56.1	BDL	XRF
		12"	95	BDL	XRF
		18"	141.2	BDL	XRF
		Range:	<56-273		. 10.10

All units Part Per Million (PPM) BDL - Below instrument detection limit

Mean:

11/19/2009 2009 TCR Phase 3 tables

125.7

Table 3 - Imported Soil Confirmation Sample Results

### Laboratory

Date	Sample ID	Pb	As
14-Aug-09	CV-TS81409	21	9
13-Oct-09	CUB1-W-1	37	18
13-Oct-09	SLB1W-1	1,200	80
6-Nov-09	RFSL-11609-A	77	13
6-Nov-09	RFSL-11609-A	150	14
	Range:	21-1,200	9-80
	Mean:	297.0	26.8

#### XRF

Date	Sample ID	Pb	As
14-Aug-09	1	200	BDL
14-Aug-09	2	301	BDL
	Range:	200-301	
	Mean:	250.5	

BDL - Below instrument detection limit All units Parts Per Milliom (PPM)

11/19/2009 2009 TCR Phase 3 tables

### Table 4 - QA/QC Sample Results

### All results ppm

### XRF-Lab

Sample ID	Pb
SDD-39 (XRF)	66.7
SDD-39 (LAB)	42
RPD (%)	45.4

Sample ID	Pb
SDD-36 (XRF)	60.6
SDD-36 (LAB)	15
RPD (%)	120.6

Sample ID	Pb
SDD-31 (XRF)	83
SDD-31 (LAB)	16
RPD (%)	135.4
	SDD-31 (XRF) SDD-31 (LAB)

Sample ID	Pb
3C-12" (XRF)	<81
3C-12" (LAB)	9.9
RPD (%)	NA

Sample ID	Pb
5H-12" (XRF)	209
5H-12" (LAB)	190
RPD (%)	9.5

### Duplicates

Sample ID	As	Pb
3C-12"	<5.8	9.9
503C-12"	<5.8	7
RPD (%)	NA	34.3

Sample ID	As	Pb	
5H-12"	13	190	
505H-12"	13	150	
RPD (%)	0.0	23.5	

### Table 5 - Air Monitoring Sample Results

DATE	SAMPLE ID	LEAD mg/ SAMPLE		LEAD ug/m3	PEL (ug/m3)	(ug/m3) Volume	NOTES	
27-Aug-09	RF-Up	< 0.00033	<	0.564	NA	1.5	585	Upwind Sample
27-Aug-09	RF-Dn	< 0.00033	<	0.509	NA	1.5	648	Downwind Sample
27-Aug-09	RF-Hoe	0.00038		0.677	50	NA	561	Site Worker Personal Sample
27-Aug-09	RF-Am	< 0.00033	<	0.541	50	NA	610	Site Worker Personal Sample
9-Sep-09	PS-Up	< 0.00033	<	0.647	NA	1.5	510	Upwind Sample
9-Sep-09	PS-Down	< 0.00033	<	0.692	NA	1.5	477	Downwind Sample
9-Sep-09	PS-Hoe	0.0011		2.434	50	NA	452	Site Worker Personal Sample
9-Sep-09	PS-Haul Truck	< 0.00033	<	0.797	50	NA	414	Site Worker Personal Sample
22-Oct-09	PS-Up	< 0.00033	<	0.365	NA	1.5	903	Upwind Sample
22-Oct-09	PS-Down	< 0.00033	<	0.354	NA	1.5	933	Downwind Sample
22-Oct-09	PS-Hoe	< 0.00033	<	0.390	50	NA	846	Site Worker Personal Sample
22-Oct-09	PS-Haul Truck	0.00042	<	0.493	50	NA	852	Site Worker Personal Sample

### Definitions:

PEL - Permissible Exposure Limit. Permissible Exposure Limits are airborne concentrations of substances that workers may be exposed to by inhalation while they are at work. In theory, they represent conditions which it is believed that nearly all workers can be exposed day after day without adverse health effects.

Action Level - The Action Level is the exposure level at which OSHA regulations take effect. This is generally one-half of the PEL.

NAAQS – National Ambient Air Quality Standards. These are standards established by EPA that apply for outdoor air throughout the country.

11/19/2009 2009 TCR Phase 3 tables

# APPENDIX A ANALYTICAL LABORATORY REPORTS



Kerry Gee

WEST **ANALYTICAL** 

AMERICAN United Park City Mines Co.

PO Box 1450

Park City, UT 84060-**LABORATORIES** 

> TEL: (435) 608-0954 FAX (435) 615-1239

RE: Richardson Flat

463 West 3600 South Salt Lake City, Utah

84115

Dear Kerry Gee:

Lab Set ID: 0910474

American West Analytical Laboratories received 7 sample(s) on 10/27/2009 for the analyses presented in the following report.

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 ail: awal@awal-labs.com

All analyses were performed in accordance to The NELAC Institute protocols unless noted otherwise. American West Analytical Laboratories is certified by The NELAC Institute in the following states: Utah, Colorado, Idaho, and Texas. Certification document is available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross Laboratory Director

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitaion limit (POL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit.

Jose Rocha QA Officer

> This is a revised report for a report originally issued 10/28/2009. Per Todd Leeds on 10/28/2009, the sample ID for -001A was changed and pages 1 and 2 were revised.

Thank You,

Approved by:

aberatory Director or designee



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Richardson Flat

AMERICAN Lab Sample ID:

0910474-001

WEST Client Sample ID: SDD-39

ANALYTICAL Collection Date: **LABORATORIES** 

10/26/2009 3:00:00 PM

Received Date: 10/27/2009

TOTAL METALS			Method	Reporting	Analytical	
Analytical Results	Units	Date Analyzed	Used	Limit	Result	Qual
Lead	mg/kg-dry	10/27/2009 6:41:00 PM	SW6010C	5.0	42	

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 -mail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/28/2009 Page 2 of 12



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Richardson Flat

AMERICAN

Lab Sample ID: 0910474-002

WEST

84115

Client Sample ID: 3C-12"

ANALYTICAL Collection Date:

10/26/2009 2:00:00 PM

LABORATORIES Received Date:

463 West 3600 South Salt Lake City, Utah 10/27/2009

	TOTAL METALS			Method	Reporting	Analytical	
	Analytical Results	Units	Date Analyzed	Used	Limit	Result	Qual
<b>.</b>	Arsenic	mg/kg-dry	10/27/2009 8:16:00 PM	SW6010C	5.8	< 5.8	
1	Lead	mg/kg-dry	10/27/2009 7:09:00 PM	SW6010C	5.8	9.9	
5					<del></del>		

(801) 263-8686 Foll Free (888) 263-8686 Fax (801) 263-8687 Fail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/28/2009 Page 3 of 12



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

**Received Date:** 

Richardson Flat 0910474-003

**AMERICAN** 

Lab Sample ID: Client Sample ID: 503C-12"

ANALYTICAL Collection Date:

10/26/2009 1:00:00 PM

**LABORATORIES** 

10/27/2009

٠.	TOTAL METALS Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
463 West 3600 South Salt Lake City, Utah	Arsenic	mg/kg-dry	10/27/2009 8:20:00 PM	SW6010C	5.8	< 5.8	
		mg/kg-dry	10/27/2009 7:13:00 PM	SW6010C	5.8	7.0	
84115				<del></del>			

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 mail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/28/2009 Page 4 of 12



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Richardson Flat

Lab Sample ID: 0910474-004

**AMERICAN** WEST

Client Sample ID: 505H-12"

ANALYTICAL Collection Date:

10/26/2009 3:10:00 PM

LABORATORIES Received Date:

10/27/2009

	TOTAL METALS Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
463 West 3600 South	Arsenic	mg/kg-dry	10/27/2009 8:24:00 PM	SW6010C	5.5	13	- <del></del>
Salt Lake City, Utah		mg/kg-dry	10/27/2009 7:17:00 PM	SW6010C	5.5	150	

(801) 263-8686 oll Free (888) 263-8686 Fax (801) 263-8687 ail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/28/2009 Page 5 of 12



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Richardson Flat

AMERICAN Lab Sample ID:

0910474-005

WEST Client Sample ID: 5H-12"

ANALYTICAL Collection Date: **LABORATORIES** 

10/26/2009 4:00:00 PM

Received Date:

10/27/2009

	TOTAL METALS Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
463 West 3600 South	Arsenic	mg/kg-dry	10/27/2009 8:28:00 PM	SW6010C	5.5	13	
Salt Lake City, Utah		mg/kg-dry	10/27/2009 7:21:00 PM	SW6010C	5.5	190	

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 ·mail: awal@awal-labs.com

Kyle F. Gross Laboratory Director

> Jose Rocha QA Officer

> > Report Date: 10/28/2009 Page 6 of 12



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Richardson Flat

Lab Sample ID: **AMERICAN** 

0910474-006

Client Sample ID: SDD-36

ANALYTICAL Collection Date:

10/26/2009 5:00:00 PM

**LABORATORIES** Received Date:

10/27/2009

TOTAL METALS

Method Reporting Analytical Used Limit

5.4

**Analytical Results** 

Lead

Units mg/kg-dry

Date Analyzed 10/27/2009 7:25:00 PM

SW6010C

Result 15

Qual

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686 oll Free (888) 263-8686 Fax (801) 263-8687 iail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/28/2009 Page 7 of 12



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Lead

Richardson Flat

**AMERICAN** 

Lab Sample ID:

0910474-007

WEST

Client Sample ID: SDD-31

ANALYTICAL Collection Date:

10/26/2009 4:30:00 PM

LABORATORIES Received Date:

10/27/2009

TOTAL METALS	S
--------------	---

**Analytical Results** 

Units Date Analyzed Used Reporting Analytical Result Qual

mg/kg-dry 10/27/2009 7:29:00 PM SW6010C 5.8 16

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 nail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/28/2009 Page 8 of 12



463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

## QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0910474

Project: Richardson Flat

Dept: ME

SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	Analysis %RPD RPD Limit Qualifiers Date
LCS-3623	Lead	mg/kg	SW6010C	18	20.00	. 0	91.6	75-125	10/27/2009
LCS-3623	Arsenic	mg/kg	- SW6010C	18	20.00	0	92.3	75-125	10/27/2009

Report Date: 10/28/2009 Page 9 of 12



463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com Kyle F. Gross
Laboratory Director

Jose Rocha QA Officer

## QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0910474

Project: Richardson Flat

Dept: ME

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	%RPD	RPD Limit Qualifiers	Analysis Date
MB-3623	Lead	mg/kg	SW6010C	< 5.0				•			10/27/2009
MB-3623	Arsenic	mg/kg	SW6010C	< 5.0				-			10/27/2009

Report Date: 10/28/2009 Page 10 of 12



463 West 3600 South Salt Lake City, Utah 84115 (801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com

Laboratory Director

Jose Rocha QA Officer

### QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0910474

Project: Richardson Flat

Dept: ME

SampType: MS

Sample ID	Analyte	U	nits	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifier	Analysis s Date
0910474-001AMS	Lead	m	g/kg-dry	SW6010C	67	20.28	41.63	125	75-125				10/27/2009
0910474-001AMS	Arsenic		g/kg-dry	SW6010C	30	20.28	45.71	<b>-</b> 79.7	75-125		•	3	10/27/2009

<sup>4 -</sup> Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.

Report Date: 10/28/2009 Page 11 of 12



463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687

e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

## QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0910474

Project: Richardson Flat

Dept: ME

SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	%RPD	RPD Limit	Qualifier	Analysis S Date
0910474-001AMSD	Lead	mg/kg-dry	SW6010C	65	21.37	41.63	108	75-125	3.36	20		10/27/2009
0910474-001AMSD	Arsenic	mg/kg-dry	SW6010C	38	21.37	45.71	-37.5	75-125	24.3	20	3	10/27/2009

<sup>1 -</sup> Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.

Report Date: 10/28/2009 Page 12 of 12

## **American West Analytical Laboratories**

SAMPLE ID for of Der Todaled

28-Oct-09

Reviewed by Samantha Broadhead on 10/27/2009

**Work Order:** 0910474 WO Type: Standard

## WORK ORDER Summary

Client ID:

UNI100

Contact:

Kerry Gee

Project:

Richardson Flat

QC Level: LEVEL 11+

Comments:

RMC client: Email copy of report to Todd Leeds; QC2+; Next Day Rush;

Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld MS SEL Sub Storag	e
0910474-001A	SDD-39	10/26/2009 3:00:00 PM	10/27/2009 3:33:25 PM	10/28/2009	Soil	3051A-ICPMS-PR	df-me	 :
	SEL Analytes: PB			10/28/2009		6010C-S	df-me	t -
	·			10/28/2009		PMOIST	df - me	<del></del>
0910474-002A	3C-12"	10/26/2009 2:00:00 PM		10/28/2009		3051A-ICPMS-PR	df-met	
				10/28/2009		6010C-S	df - met	<del></del>
	SEL Analytes: AS PB	<del> </del>		10/28/2009		PMOIST	df-met	· · · · · ·
0910474-003A	503C-12"	10/26/2009 1:00:00 PM		10/28/2009		3051A-ICPMS-PR	df - met	
· · · · · · · · · · · · · · · · · · ·	SEL Analytes: AS PB	· .		10/28/2009		6010C-S	df-met	<del></del>
	\$ W			10/28/2009		PMOIST	df - met	
0910474-004A	505H-12"	10/26/2009 3:10:00 PM		10/28/2009		3051A-ICPMS-PR	df - met	
	SEL Analytes: AS PB			10/28/2009		6010C-S	df - met	
				10/28/2009		PMOIST	df - met	
0910474-005A	5H-12"	10/26/2009 4:00:00 PM		10/28/2009		3051A-ICPMS-PR	df - met	
	SEL Analytes: AS PB			10/28/2009		6010C-S	df - met	
				10/28/2009		PMOIST	df-met	
0910474-006A	SDD-36	10/26/2009 5:00:00 PM		10/28/2009		3051A-ICPMS-PR	df - met	<del></del>
	SEL Analytes: PB			10/28/2009		6010C-S	df - met	· · · · · · · · · · · · · · · · · · ·
				10/28/2009	No.	PMOIST	df - met	
0910474-007A	SDD-31	10/26/2009 4:30:00 PM		10/28/2009	<del> </del>	3051A-ICPMS-PR	df-met	

WORK ORDER Summary

28-Oct-09

**Work Order:** 0910474

WO Type: Standard

Client ID:

UNI100

Contact:

Kerry Gee

Project:

Richardson Flat

QC Level: LEVEL ||+

Reviewed by Samantha Broadhead on 10/27/2009

Comments:

RMC client: Email copy of report to Todd Leeds; QC2+; Next Day Rush;

Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld MS SEL Sub Storage
0910474-007A	SDD-31 SEL Analytes: PB	10/26/2009 4:30:00 PM	10/27/2009 3:33:25 PM	10/28/2009	. Soil	6010C-S	df-met
				10/28/2009		PMOIST	df - met

## **American West Analytical Laboratories**

## **WORK ORDER Summary**

Client ID: U

UNI100

Contact:

Kerry Gee

Project:

Richardson Flat

QC Level: LEVEL II+

Comments:

RMC client: Email copy of report to Todd Leeds; QC2+; Next Day Rush;

27-Oct-09

Work Order: 0910474

WO Type: Standard

Reviewed by on

Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage	
0910474-001A	SDD-3a	10/26/2009 3:00:00 PM	10/27/2009 3:33:25 PM	10/28/2009	Soil	3051A-ICPMS-PR					df - met	
	<u> </u>			10/28/2009		6010C-S			<b>V</b>		df - met	
<del></del>	SEL Analytes: PB											
	· · · · · · · · · · · · · · · · · · ·	·		10/28/2009		PMOIST					df - met	
0910474-002A	3C-12"	10/26/2009 2:00:00 PM		10/28/2009		3051A-ICPMS-PR					df - met	
		· · · · · · · · · · · · · · · · · · ·		10/28/2009		6010C-S			V		df - met	
	SEL Analytes: AS PB			10/05/0000								
	<u>.</u>	·		10/28/2009		PMOIST					df - met	
0910474-003A	. 503C-12"	10/26/2009 1:00:00 PM		10/28/2009		3051A-ICPMS-PR					df - met	
				10/28/2009		6010C-S			<b>V</b>		df - met	
	SEL Analytes: AS PB										<del></del>	
	(	<u>.                                    </u>	•	10/28/2009		PMOIST					df - met	
0910474-004A	505H-12"	10/26/2009 3:10:00 PM		10/28/2009		3051A-ICPMS-PR					df - met	
				10/28/2009		6010C-S			V		df - met	
-	SEL Analytes: AS PB	<u></u>	<u> </u>			·						
	·			10/28/2009	****	PMOIST					df - met	
0910474-005A	5H-12"	10/26/2009 4:00:00 PM		10/28/2009		3051A-ICPMS-PR					df - met	
				10/28/2009		6010C-S			✓		df - met	
	SEL Analytes: AS PB											
				10/28/2009		PMOIST					df - met	
0910474-006A	SDD-36	10/26/2009 5:00:00 PM		10/28/2009		3051A-ICPMS-PR					df - met	
				10/28/2009		6010C-S			<b>V</b>		df - met	
	SEL Analytes: PB	·			·					<u> </u>	<del></del>	
	•		•	10/28/2009		PMOIST					df - met	

## WORK ORDER Summary

27-Oct-09

Work Order: 0910474

WO Type: Standard

Client ID:

UNI100

Contact:

Kerry Gee

Project:

Richardson Flat

QC Level: LEVEL II+

Comments:

RMC client: Email copy of report to Todd Leeds; QC2+; Next Day Rush;

Reviewed by on	l
----------------	---

Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage
0910474-007A	SDD-31	10/26/2009 4:30:00 PM	10/27/2009 3:33:25 PM	10/28/2009	. Soil	3051A-ICPMS-PR					df - met
				10/28/2009		6010C-S	П		<b>V</b>		df - met
	SEL Analytes: PB										
				10/28/2009		PMOIST					df - met

# RMC

Laboratory Services Request Form

0910474

I. CLIENT INFORMATION			SEND REQUESTS TO:
Client Name: UNITED PARK CITY MINES			American West
Client Address: PO BOX 1450 PARK CITY, U	Г 84060		Analytical Laboratories
Client Phone: 435-608-0954 Client Fax: 435-615-1239			463 W. 3600 South Salt Lake City, UT 84115
II. ACCOUNT INFORMATION	N. W.S.		
Account Name:		<u> </u>	Patrick Noteboom
Sample Questions- Todd Leeds RMC- 801-255	-2626	<u> </u>	Phone # (801) 750-2585
0.1			Fax (801)-263-8687
TAT: 24- horrs	P.O. No:	Richardson Flat	
III. REPORT INSTRUCTIONS			
Report Results To: KERRY GEE- UPCM AND TO	DDD LEEDS - RMC	C FAX-255-3266	
Report Address: PO BOX 1450 PARK CITY UT 84060	AND TODD LEEDS, R	MC, 8138 S. STATE ST., ST	E 2A, MIDVALE UT 84047
Please Forward Results By: US Mail (X)	Fed Ex ( )	Fax (X ) Oth	erTodd@r <u>mc-ut.com</u>
Services Requested below are required no later than			_ (date)
IV. TYPE OF SERVICE REQUESTED			
Please analyze the enclosed environmental samples for:	γ		
Lab Use	Sampling	No.	
Only Field Sample	Date & Time	of ·	Analysis
Lab No. No./Description		Cont.	Requested
50D-39 1 10126109	3,000	1 Pb	
3C-17"	2 pm	bP+4	ts
503(-1) <sup>11</sup>	Ipm		
50511-1211	3.lupa		
5H-12".	4.52	I V I V	
2DD-36	Sph	1 126	· ,
SDD-31	4.30 pm	V Pb	<del></del>
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notes: Cd detection limits must be <0.0008 ppm, all V. CHAIN OF CUSTODY RECORD	detection limits sh	ould be as low as prati	
Dispatched by:	Date	Time	Courier Co. Name
Relinquished by:	Date 001 - 27	Time 15.20	Airbill #
Received by:	Date 10/27/00	Time 1570	Custody Seal Intact?
Received for lab by:	Date	Time	Yes No

	ad	10474	
Lab Set ID:	UVI	V7 19	<u> </u>

Samples Were:				C Tape					Container					. 1	lo. Rec.	
☐ Shipped By:		<u> </u>				ter Pacl			□ AWAL S	upplied I	Plastic					
Hand Delivered				☐ Yes ☑ No ☐ N/A Unbroken on Outer package					□ AWAL S	upplied (	Clear Gla	ass				
□ Ambient			τ	Inbroke				-,[	DAWALS	upplied v	Amber G	lass				
B Chilled				□ Yes	□ N	o en	/A .		DAWALS	upplied	VOA/TO	C/TOX	Vials			
Temperature	1V.2 °C			Pre	sent on	Sample	:		□ Amber □	Clear 🗆	Headsp	ace 🗆 No	Headsp:	ace		
Rec. Broken/Leak	ing □ Yes ☑ No	□ N/A	7	☐ Yes		o on	/A		□ Non AWA	L Supp	hed Con	tainer				
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Rec. Within Hold	✓ Yes □ No							Į	Discrepanc	ies <u>B</u> etw	een Lab	els and	COC .		Yes	Z No
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Bottle Type	Preservative	All pHs OK		···i			Τ	Γ.	· · · · · · · · · · · · · · · · · · ·	<del>' ' '</del>	T .	T	T	1	T .	· T
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>	All phis Ok			<del></del> -	-	<del> </del>	<del> </del>			1	<del> </del>	<del> </del>	<del> </del>	<del>                                     </del>	<del></del>
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>	<del> \\\</del>					<del> </del>	<b>├</b>			<del>                                     </del>			<del>                                     </del>		+
Cyanide	PH > 12 NaOH	1			<del></del>	-	<del> </del>	-		<del> </del>	<del> </del>		<del>                                     </del>		<del>                                     </del>	<del> </del>
Metals	pH <2 HNO <sub>3</sub>	1	$\overline{}$			-		-	<del>-</del>	<del>                                     </del>						
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>	<u> </u>	1				T					<u> </u>	1			
Nutrients	pH <2 H <sub>2</sub> SO <sub>4</sub>				.: <del></del>			<u> </u>			·			1	- i	1.
0 & G	pH <2 HCL				4			-		:			1			
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>		1													
Sulfide	pH > 9NaOH, ZnAC															
TKN	pH <2 H₂SO₄						·				<u> </u>			-	1	
TOC	pH <2 H₃PO₄				<u> </u>											
T PO <sub>4</sub>	pH <2 H₂SO₄									·		<u> </u>			· ·	
TPH	pH <2 HCL							ļ			<u> </u>	<u></u>	ļ. <u></u>		_	ļ
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Dropoduro: 1	Dour s ame!!	Int of accorda in the con-	mala li-l	· .		1 1 1/	<u>1</u>	<u> </u>		L	Ļ	<u> </u>	J	<u> </u>	1	<u> </u>
Procedure: 1		unt of sample in the sar Lid gently over wide ra		paper .							•			•		

3). 4) 5) 6) 7)

Do Not dip the pH paper in the sample bottle or lid

If sample Is not preserved properly list its extension and receiving pH in the appropriate column above
Flag COC and notify client for further instructions
Place client conversation on COC
Samples may be adjusted at client request



Kerry Gee

United Park City Mines Co.

PO Box 1450

Park City, UT 84060-

TEL: (435) 608-0954 FAX (435) 615-1239

RE: Richardson Flat

463 West 3600 South Salt Lake City, Utah 84115

Dear Kerry Gee:

Lab Set ID: 0908555

American West Analytical Laboratories received 4 sample(s) on 8/28/2009 for the analyses presented in the following report.

(801) 263-8686 bll Free (888) 263-8686 Fax (801) 263-8687 ail: awal@awal-labs.com All analyses were performed in accordance to The NELAC Institute protocols unless noted otherwise. American West Analytical Laboratories is certified by The NELAC Institute in the following states: Utah, Colorado, Idaho, and Texas. Certification document is available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross Laboratory Director intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitaion limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is

Jose Rocha QA Officer

Thank You,

Approved by:

Jose 6. Rocha

Laboratory Director or designee



Client:

United Park City Mines Co.

Contact: Kerry Gee

**AMERICAN** 

WEST

Project: Lab Sample ID:

Richardson Flat

0908555-001

ANALYTICAL **LABORATORIES** 

Client Sample ID: RF-Up-8/27/09-585L

**Collection Date:** 

8/27/2009

Received Date:

8/28/2009

TOTAL METALS

Method

Reporting Analytical

Result

< 0.0025

**Analytical Results** 

Lead

Units

mg/filter

**Date Analyzed** 9/2/2009 6:33:00 PM

Used SW:6010C

Limit

0.0025

Qual

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686

Toll Free (888) 263-8686 Fax (801) 263-8687

mail: awal@awal-labs.com

Kyle F. Gross Laboratory Director

> Jose Rocha QA Officer

> > Report Date: 9/14/2009 Page 2 of 8



Client:

United Park City Mines Co.

mg/filter

Contact: Kerry Gee

Project: Richardson Flat

Lab Sample ID: **AMERICAN** 

Lead

0908555-002

WEST

Client Sample ID: RF-Dn-8/27/09-648L

**ANALYTICAL** 

8/27/2009

**LABORATORIES** 

8/28/2009

TOTAL METALS

Method Reporting Analytical Used Limit Result

0.0025

**Analytical Results** 

Collection Date:

Received Date:

Units Date Analyzed

9/2/2009 6:37:00 PM

SW6010C

< 0.0025

Qual

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686 oll Free (888) 263-8686 Fax (801) 263-8687 ail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 9/14/2009 Page 3 of 8



Client:

United Park City Mines Co.

Units

Contact: Kerry Gee

Project:

Richardson Flat

AMERICAN Lab Sample ID:

84115

0908555-003

WEST

Client Sample ID: RF-Hoe-8/27/09-561L

ANALYTICAL LABORATORIES

8/27/2009

Collection Date: Received Date:

8/28/2009

TOTAL METALS

**Analytical Results** 

Method Used Reporting

Limit

Analytical

Result

Qual

463 West 3600 South Salt Lake City, Utah Lead mg/filter 9/2/2009 6:41:00 PM SW6010C 0.0025 < 0.0025

Date Analyzed

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 mail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 9/14/2009 Page 4 of 8



Client:

United Park City Mines Co.

mg/filter

Contact: Kerry Gee

Project:

Richardson Flat

**AMERICAN** 

Lab Sample ID: 0908555-004

WEST

ANALYTICAL **LABORATORIES** 

Client Sample ID: RF-Am-8/27/09-573L

Collection Date: Received Date:

8/27/2009

8/28/2009

TO	TA	AT.	M	EТ	ΔĬ	S
10		<b>1</b>	1 V I	111	-1	_/L]

Method Reporting Analytical

**Analytical Results** 

Units Date Analyzed Used

Limit

Result Qual

Lead

9/2/2009 6:44:00 PM

SW6010C

0.0025

< 0.0025

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686 oll Free (888) 263-8686

Fax (801) 263-8687 : awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 9/14/2009 Page 5 of 8



463 West 3600 South
Salt Lake City, Utah 84115
36, Toll Free (888) 263-8686, Fax (801) 26

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

## QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0908555

Project: Richardson Flat

Dept: ME

SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	Analysis %RPD RPD Limit Qualifiers Date
LCS-2824	Lead	mg/kg	SW6010C	20	20.00	0	99.0	75-125	9/2/2009

Report Date: 9/14/2009 Page 6 of 8



463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Laboratory Director

Jose Rocha QA Officer

## QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0908555

Project: Richardson Flat

Dept: ME

SampType: LCSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit Qua	Analysis difiers Date
LCSD-2824	Lead	mg/kg	SW6010C	21	20.00	0	104	75-125	5.12	20	9/2/2009

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide prescision data.

Report Date: 9/14/2009 Page 7 of 8



463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

## QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0908555

Project: Richardson Flat

Dept: ME

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit Qualifiers	Analysis Date
MB-2824	Lead	mg/kg	SW6010C	< 5.0							9/2/2009

Report Date: 9/14/2009 Page 8 of 8

## **American West Analytical Laboratories**

## **WORK ORDER Summary**

28-Aug-09

Client ID:

**Work Order:** 0908555

UNI100

Contact:

Kerry Gee

WO Type: Standard

Project:

Richardson Flat

QC Level: LEVEL ||+

Reviewed by on

Comments:

RMC client; QC2+ / email 2 people;

Comments:	RMC client; QC2+ / em	nail 2 people;	HUGBS DB							Ų.		
Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL S	ub Stor	age	7
0908555-001A	RF-Up-8/27/09-585L	8/27/2009	8/28/2009 11:30:19 AM	9/14/2009	Filter	3051A-ICPMS-PR				desic	ator	
	<del></del>		•	9/14/2009		6010C-S			<b>V</b>	desic	ator	-
0908555-002A	RF-Dn-8/27/09-648L		· ·	9/14/2009		3051 A-ICPMS-PR				desic	ator	
				9/14/2009 .		6010C-S				desic	ator	
0908555-003A	RF-Hoe-8/27/09-561L			9/14/2009	`	3051 A-ICPMS-PR				desic	itor	
				9/14/2009		6010C-S			<b>V</b>	desic	ator	
0908555-004A	RF-Am-8/27/09-573L			9/14/2009		3051A-ICPMS-PR				desic	itor	
				9/14/2009		6010C-S			<b>V</b>	desica	itor	

## RMC

## Laboratory Services Request Form

0908555

				·			- 100	
I. CLIENT IN	IFORMATION				· · · · · · · · · · · · · · · · · · ·		SEND REQUESTS TO:	<u> </u>
Client Nam	ie:l	JNITED PARK	CITY MINES			·	American West	
Client Addr	ress:F	PO BOX 1450 I	PARK CITY, UT	84060			Analytical Laboratorio	es
				•			463 W. 3600 South	
Client Phor	ne:4	35-608-0954					Salt Lake City, UT	
Client Fax:		135-615-1239					84115	ļ
II. ACCOUN	TINFORMATIC	N				<u> </u>		1
Account N	ame:						Patrick Noteboom	
Sample Q	uestions	Todd Leeds	RMC- 801-255	2626			Phone # (801) 750-258	35
TAT:	Standar	J		P.O. No:	Richards	on Flat	Fax (801)-263-8687	
	INSTRUCTION							
			UPCM AND TO	DDD LEEDS - RMC	C FAX-25	5-3266		
							E 2A, MIDVALE UT 84047	
							Todd@rmc-ut.com	
	Requested below						(date)	
	F SERVICE RE							
	yze the enclose							
Lab Use				Sampling -	No.			
Only		Field Sample		Date & Time	of		Analysis	
Lab No.		No./Description	1		Cont.		Requested	
	rt-up-8	127/09-5	85L	8127/69	1	lead		
	rf-BN-	8127104-	648L					
	rf-hoe	-8127/69	- 561 L					
		~ 812716		$\Psi$	V	V	·	
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notes:	Cd detection lin		0.0008 ppm	F			ingga tikan mendilik dilik di	
V. CHAIN C	OF CUSTODY R	ECORD	<u> </u>		<u></u>	<u> </u>	<del>                                     </del>	
Dispatched I	оу:	<del>^</del>		Date	Time		Courier Co. Name	
Relinquished	d by:	4	į.	Date 8)2800	Time	11:18	Airbill #	
Received by	Celha C	Sty-	4	Date 8/28/119	Time /	(18	Custody Seal Intact?	
Received for	r lab by:	·	·	Date	Time		Yes N	0

Lab Set ID: 0908555

Samples Were:			(	OC Tap	e Was:			• 1	Con	tainer [	Type:				.   1	lo. Rec.	
☐ Shipped By:				Present on Outer Package							upplied I	Plastic					
Mand Delivered		· · · · · · · · · · · · · · · · · · ·		☐ Yes ☐ No ☐ N/A Unbroken on Outer package							upplied (		ass				
Ambient											upplied A				.		
□ Chilled				□ Ye		o DN	. •				upplied \			Vials			
Temperature	27 °C	<del></del>	_			Sample								lo Headsp	200		
Rec. Broken/Leak		□ N/A		□Ye	`	o DN					AL Suppl			io ricaus <sub>i</sub>	nace		
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Dun J. Dun new too	l ÆYes □No	□ N/A		lotes:	2 1	0 11/	'A	-			٠						
Properly Preserved Notes:	1 40 1 62 17 140	U IV/A	'`	oles.				İ	÷						. `		
Notes:														٠.			
Rec. Within Hold	X Yes □ No							ŀ	Disc	repanci	ies Betw	een Lal	els and	COC	. · [	Yes	₽No
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				1.			,		:								
Bottle Type	Preservative	All pHs OK															
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>																
COD	pH-2-H <sub>2</sub> SO <sub>4</sub>												,				
Cyanide	PH >12 NaOH									-							
Metals	pH <2 HNO₃										*			·			
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																
Nutrients	pH <2 H <sub>2</sub> SO <sub>4</sub>		· 					<u> </u>									
O & G	pH <2 HCL				* * * * * * * * * * * * * * * * * * * *								·   .			1	
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>			<u> </u>						•						ļ	
Sulfide	pH > 9NaOH, ZnAC						·								1.		
TKN	pH <2 H₂SO₄					<u> </u>		1.	: 1			ļ	ļ		ļ		-
TOC	pH <2 H₃PO₄			<u> </u>		ļ · · ·		ļ	· .				<u> </u>		<u> </u>	<u> </u>	
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>		· ·	<u> </u>	ļ		·	<u> </u>							ļ	<u> </u>	ļ
TPH	pH <2 HCL			· .		ļ									ļ		:
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				<u> </u>	<u> </u>	<u> </u>					·		J			<u></u>	1
Procedure: 1	•											•					
3		paper in the sample	bottle	or lid							•			•			
4	) If sample is not pre	served properly list	its exte	nsion and	receiving	pH in the	appropria	ate co	lumn a	above.				•			
5 6	, –	y client for further in	nstructio	ons													
	•	djusted at client req	uest .														
1	) Samples may be ac	ajusted at client req	uest														



Kerry Gee

AMERICAN WEST ANALYTICAL LABORATORIES

AMERICAN United Park City Mines Co.

PO Box 1450

Park City, UT 84060-

TEL: (435) 608-0954 FAX (435) 615-1239

RE: Richardson Flat

463 West 3600 South Salt Lake City, Utah

84115

Dear Kerry Gee:

Lab Set ID: 0908555

American West Analytical Laboratories received 4 sample(s) on 8/28/2009 for the analyses presented in the following report.

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 nail: awal@awal-labs.com All analyses were performed in accordance to The NELAC Institute protocols unless noted otherwise. American West Analytical Laboratories is certified by The NELAC Institute in the following states: Utah, Colorado, Idaho, and Texas. Certification document is available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross Laboratory Director

> Jose Rocha QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitaion limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit.

This is a revised report for a report originally issued on 9/14/2009. By client request, samples were re-analyzed by method SW6020A.

Thank You,

Approved by

Laboratory Director or designee



Client:

United Park City Mines Co.

mg/filter

Contact: Kerry Gee

Richardson Flat Project:

Lab Sample ID:

0908555-001

**AMERICAN** WEST

Client Sample ID: RF-Up-8/27/09-585L

ANALYTICAL LABORATORIES

8/27/2009

Collection Date: Received Date:

8/28/2009

TO	TAT	ME	<b>CALS</b>

**Analytical Results** 

previously issued reports.

Method

Analytical

Units Date Analyzed

10/1/2009 4:34:12 PM

Reporting Limit Used

Result Qual

Lead 463 West 3600 South

Salt Lake City, Utah 84115

0.00033 < 0.00033 ^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the

SW6020A

(801) 263-8686 1 Free (888) 263-8686 Fax (801) 263-8687 ail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/5/2009 Page 2 of 8



Client:

United Park City Mines Co.

mg/filter

Contact: Kerry Gee

Project:

Richardson Flat

**AMERICAN** 

Lab Sample ID: 0908555-002

WEST

84115

Client Sample ID: RF-Dn-8/27/09-648L

ANALYTICAL **LABORATORIES** 

8/27/2009

**Collection Date:** Received Date:

8/28/2009

TO	TA	T.	M	RΠ	$\Gamma \mathbf{A}$	T.S

Method Reporting

SW6020A

Analytical

**Analytical Results** 

previously issued reports.

Units Date Analyzed Used · Limit Result Qual

Lead 463 West 3600 South

Salt Lake City, Utah

0.00033 < 0.00033 ^- Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the

10/1/2009 4:51:35 PM

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 nail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/5/2009 Page 3 of 8



Client:

United Park City Mines Co.

mg/filter

Contact: Kerry Gee

**AMERICAN** 

Project: Richardson Flat

Lab Sample ID: 0908555-003

WEST

Client Sample ID: RF-Hoe-8/27/09-561L

ANALYTICAL **LABORATORIES** 

8/27/2009

**Collection Date:** Received Date:

8/28/2009

TO	T	A1	LIN	Æ	TA	T	S

Method Reporting Used Limit

Analytical Result Qual

Analytical Results

Lead

Units **Date Analyzed** 

SW6020A

0.00033 0.00038

463 West 3600 South

Salt Lake City, Utah

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

10/1/2009 4:57:23 PM

(801) 263-8686 ll Free (888) 263-8686 Fax (801) 263-8687 ail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/5/2009 Page 4 of 8



Client:

United Park City Mines Co.

mg/filter

Contact: Kerry Gee

Project:

Lead

Richardson Flat

**AMERICAN** 

0908555-004 Lab Sample ID:

WEST

Client Sample ID: RF-Am-8/27/09-573L

ANALYTICAL **LABORATORIES** 

Collection Date: 8/27/2009 8/28/2009

TOTAL METALS

Method Reporting Analytical Used Limit

0.00033

**Analytical Results** 

Received Date:

Units Date Analyzed

10/1/2009 5:03:11 PM

SW6020A

Result

< 0.00033

Qual

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 mail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/5/2009 Page 5 of 8



463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Laboratory Director

Jose Rocha QA Officer

## QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0908555

Project: Richardson Flat

Dept: ME

SampType: LCS

Sample ID	Analyte	 Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	Analysis %RPD RPD Limit Qualifiers Date
LCS-2824	Lead	mg/kg	SW6020A	20	20.00	0	99.5	85-115	10/1/2009

Report Date: 10/5/2009 Page 6 of 8



463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

## QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0908555

Project: Richardson Flat

Dept: ME

SampType: LCSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	· Limits	%RPD	RPD Limit Qualifier	Analysis s Date
LCSD-2824 ·	Lead	mg/kg	SW6020A	20	20.00	0 .	101	85-115	1.54	20	10/1/2009

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide prescision data.

Report Date: 10/5/2009 Page 7 of 8



ambrican west anabytical baboratores

463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Laboratory Director

Jose Rocha QA Officer

## QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0908555

Project: Richardson Flat

Dept: ME

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit Qualifiers	Analysis Date
MB-2824	Lead ·	mg/kg	SW6020A	< 0.65				•			10/1/2009

Report Date: 10/5/2009 Page 8 of 8

## **American West Analytical Laboratories**

## WORK ORDER Summary

Client ID:

UNI100

Contact:

Comments:

Kerry Gee

Project:

Richardson Flat

QC Level: LEVEL II+

RMC client; QC2+ / email 2 people. Metals by 6020 added 10/1/09-RW;

Sample re-analyzed by method 6020 Reviewed by Samantha Broadhead on 8/28/2009

01-Oct-09

Work Order: 0908555

WO Type: Standard

						•					
Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage
0908555-001A	RF-Up-8/27/09-585L	8/27/2009	8/28/2009 11:30:19 AM	9/14/2009	Filter	3051A-ICPMS-PR					desicator
			<del></del>	9/14/2009		6010C-S			V		desicator
	SEL Analytes: PB										
	,			9/14/2009		6020 <b>-</b> S			V		desicator
	SEL Analytes: PB		· 								
0908555-002A	RF-Dn-8/27/09-648L			9/14/2009		3051A-ICPMS-PR					desicator
				9/14/2009		6010C-S	П	$\Box$	<b>V</b>	П	desicator
	SEL Analytes: PB							_	_	_	
,				9/14/2009		6020-S			V		desicator
_	SEL Analytes: PB	•		•							
0908555-003A	RF-Hoe-8/27/09-561L			9/14/2009		3051A-ICPMS-PR					desicator
				9/14/2009		6010C-S	П	П	V		desicator .
	SEL Analytes: PB			•	•			_	_	_	
-				9/14/2009		6020-S			V		desicator
	SEL Analytes: PB	,	•			•					
0908555-004A	RF-Am-8/27/09-573L			9/14/2009		3051A-ICPMS-PR	· 🗆				desicator
				9/14/2009		. 6010C-S		$\Box$	<b>V</b>	П	desicator
\$ 	SEL Analytes: PB		•			•			_		
				9/14/2009		6020-S			<b>V</b>		desicator
	SEL Analytes: PB		•					_	_		

American West Analytical Laboratories

RMC client; QC2+ / email 2 people;

## WORK ORDER Summary

28-Aug-09

Client ID: UNI100 Work Order: 0908555

Contact:

Kerry Gee

WO Type: Standard

Project:

Comments:

Richardson Flat

QC Level: LEVEL II+

Reviewed by on

Comments:	RMC client; QC2+ / em	nail 2 people;	Hek		٠,		el					
Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hid	MS	SEL	Sub	Storage	
0908555-001A	RF-Up-8/27/09-585L	8/27/2009	8/28/2009 11:30:19 AM	9/14/2009	Filter	3051A-ICPMS-PR					desicator	
				9/14/2009		6010C-S			V		desicator	
0908555-002A	RF-Dn-8/27/09-648L			9/14/2009		3051A-ICPMS-PR					desicator	
				9/14/2009		6010C-S			V		desicator	
0908555-003A	RF-Hoe-8/27/09-561L			9/14/2009		3051A-ICPMS-PR					desicator	
		. '		9/14/2009		6010C-S			V		desicator	
0908555-004A	RF-Am-8/27/09-573L			9/14/2009		3051A-ICPMS-PR					desicator	
				9/14/2009		6010C-S			V		desicator	

# RMC

## Laboratory Services Request Form

0408222

I. CLIENT IN	IFORMATION					SEND REQUESTS TO	:
Client Nam	e:	American West					
Client Addr	ress:	PO BOX 1450 PARK CITY, UT	84060			Analytical Laboratori	es
						463 W. 3600 South	1
Client Phor	ne:	435-608-0954			ļ	Salt Lake City, UT	- \
Client Fax:		435-615-1239				84115	l
II. ACCOUN	T INFORMATI	ON .				•	.
Account Na	ame:					Patrick Noteboom	1
Sample Q	uestions-	Todd Leeds RMC-801-255	-2626			Phone # (801) 750-258	85
		1	•		·	Fax (801)-263-8687	1
TAT:	Standa	rd	P.O. No:	Richards	son Flat		
III. REPORT	FINSTRUCTIO	DNS					* **
Report Re	sults To:	KERRY GEE- UPCM AND TO	ODD LEEDS - RMC	FAX-25	5-3266		
Report Ad	dress:	PO BOX 1450 PARK CITY UT 84060	AND TODD LEEDS, RI	иС, 8138 S	S. STATE ST., STE	2A, MIDVALE UT 84047	
1		By: US Mail (X)					
Services F	Requested belo	ow are required no later than	· · · · · · · · · · · · · · · · · · ·			(date)	
IV. TYPE O	F SERVICE R	EQUESTED					75. 
Please ana	lyze the enclos	sed environmental samples for:					
Lab Use			Sampling :	No.	1 .		{
Only		Field Sample	Date & Time	of	•	Analysis	
Lab No.		No./Description		Cont.		Requested	
	rt-up-	8127109-585L	8127/69	1	lead	·	
\	rf-BN	- 8127104-648L				· · · · · · · · · · · · · · · · · · ·	
	rf-hod	2-8127169-561 L			1 1		
	18F-A	e-8127169-561 L m -8127169-573 L	$\downarrow$	V	I V		
<u></u>							
<u></u>				<u> </u>			
<u> </u>			<u> </u>	<u> </u>	<u> </u>		
<b> </b>	<u> </u>	·			<u> </u>		
						<u></u>	
			<u> </u>	<u> </u>	<u></u>		
_notes:		limits must be <0.0008 ppm	na Kalendaria		grand and the state of	* #**\$6	
V. CHAIN	OF CUSTODY	RECORD				1977	
Dispatched	by:	<i></i>	Date	Time		Courier Co. Name	
Relinquishe	ed by:	14	Date 812800	1 Time	11:18	Airbill #	
Received b	. 80	My A	Date 8/28/19	Time	1118	Custody Seal Intact?	
Received for	or lab by:		Date	Time		Yes I	No

Lab Set ID: 0908555

Samples Were:			COC Tape Was:					Container Type:						. []	No. Rec.			
☐ Shipped By:				Present on Outer Package				DAWAL Supplied Plastic										
Mand Delivered				□ Yes □ No □ N/A					☐ AWAL Supplied Flastic									
Ambient				$\overline{}$	ken on C					WAL S								
☐ Chilled	<del></del>			σλ		10 DV	-			WAL S				Vials		<del> </del>		
Temperature	27 °C		$\neg +$		esent on			-		Amber 🗆					ace .			
Rec. Broken/Leak		□ N/A	_	· · D Y	`	lo ON				Non AW				o IIoaaap	1200	<del></del>	<del></del>	
Notes:		01071			broken o					tes:	10 0 upp	nea cor	icamoi V					
110103.	•			υУ		o □N			110					_				
Properly Preserve	d ÆlYes □No	□ N/A	N	otes:	20 10	V 31	77.	-	1			•						
Notes:	4 103 2110	GIMI	<b> </b> ^:											.'				
110203.				•														
Rec. Within Hold	X Yes □ No				••.					crepanc	ies Betw	een Lal	els and	COC .		□ Yes PNo		
Notes:						```			Not	tes:							<b>/</b> \	
<u> </u>					•	•	\.				-	•				٠.		
	•		1.									:		•		٠.	•	
				<del>:</del> -	-	<del> </del>	<i></i>	<del></del> .	٠	<del> </del>					• •	<del></del>	<del></del>	
Bottle Type	Preservative	. All pHs OK		T	Τ	1	1	Ť		<del></del>			T	T :		<del></del>	7	
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>	122 922 932	••. •	1		<del> </del>	<del>  · ·                                   </del>	+		<del> </del>			<del></del>	1	<del> </del>	+	<del>                                     </del>	
COD	pH-2H <sub>2</sub> SO <sub>4</sub>	· · · · · · · · · · · · · · · · · · ·			1	<del>                                     </del>	<del> </del>	+	<del></del>				1		<u> </u>	1		
Cyanide	PH >12 NaOH				7			1				1	1		<u> </u>	1	1	
Metals	pH <2 HNO₃							1			1.0							
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>				,,	·								1		1		
Nutrients	pH <2 H <sub>2</sub> SO <sub>4</sub>							7		· .								
0&0	pH <2 HCL					-												
Phenols	pH <2 H₂SO₄																	
Sulfide	pH > 9NaOH, ZnAC													1.				
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>												1	· :			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
TOC	pH <2 H₃PO₄		•				-	<u> </u>		·								
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>						<u> </u>	<u> </u>									ļ	
TPH	pH <2 HCL	<del>-</del>		·			ļ	1			· 		<b></b> _			<del> </del>	ļ <u>:</u>	
		<del></del>	··	<u> </u>	<u> </u>		ļ.·	<u> </u>		·	·.	 	<u> </u>	·		-	<del> </del>	
<del> </del>				<u> </u>			ļ	<del> </del>										
				<del>;</del>			<u> </u>	<del> </del>				<del></del>		·	<u> </u>	<u> </u>		
Procedure: 1	) Pour a small amoun	u of comple in the o	ompio li	<del></del>		<u> </u>	L	ــــــــــــــــــــــــــــــــــــــ			لـــــــــــــــــــــــــــــــــــــ	<del> </del>	l	<u>.                                    </u>	L	<u> </u>		
Procedure: 1						7 .		•	•				•					
3)	Do Not dip the pH p	aper in the sample	bottle o	r lid														
. 47		served properly list i	ts exten	sion and	receiving	pH in the	appropria	ite co	lumn	above .								
5) 6)	Place client convers	ation on COC		iə						•								
7)		justed at client requ	est .															



Kerry Gee

PO Box 1450

AMERICAN

United Park City Mines Co.

WEST ANALYTICAL

LABORATORIES

Park City, UT 84060-

TEL: (435) 608-0954 FAX (435) 615-1239

RE: Richardson Flat

463 West 3600 South Salt Lake City, Utah 84115

Dear Kerry Gee:

Lab Set ID: 0909160

American West Analytical Laboratories received 4 sample(s) on 9/9/2009 for the analyses presented in the following report.

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 iail: awal@awal-labs.com All analyses were performed in accordance to The NELAC Institute protocols unless noted otherwise. American West Analytical Laboratories is certified by The NELAC Institute in the following states: Utah, Colorado, Idaho, and Texas. Certification document is available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross Laboratory Director

> Jose Rocha OA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitaion limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit.

Thank You,

Approved by:

Jose 6. Rocha
Laboratory Director or designee

Report Date: 9/14/2009 Page 1 of 8



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Lead

Richardson Flat

Lab Sample ID:

**AMERICAN** WEST 0909160-001

Client Sample ID: PS-Up (510 Liters)

**ANALYTICAL LABORATORIES**  9/9/2009

**Collection Date:** Received Date:

9/9/2009

TOTAL METALS

Method

Reporting Analytical

**Analytical Results** 

Units Date Analyzed

mg/filter

Used

9/10/2009 6:04:00 PM

Limit Result

Qual

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686

ll Free (888) 263-8686

Fax (801) 263-8687 ail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

SW6010C 0.0025 < 0.0025

Report Date: 9/14/2009 Page 2 of 8



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Richardson Flat

**AMERICAN** 

0909160-002 Lab Sample ID:

WEST

**ANALYTICAL** 

Client Sample ID: PS-Down (477 Liters)

**LABORATORIES** 

9/9/2009

Collection Date: Received Date:

9/9/2009

TOTA	$\mathbf{L} \mathbf{ME}$	TALS
------	--------------------------	------

TOTAL METALS			Method	Reporting	Analytical	
Analytical Results	Units	Date Analyzed	Used	Limit	Result	Qual
Lead	mg/filter	9/10/2009 6:08:00 PM	SW6010C	0.0025	< 0.0025	

463 West 3600 South Salt Lake City, Utah

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 mail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 9/14/2009 Page 3 of 8



Client:

Lead

United Park City Mines Co.

mg/filter

Contact: Kerry Gee

Project:

Richardson Flat

**AMERICAN** 

**Lab Sample ID:** 0909160-003

WEST

Client Sample ID: PS-Hoe (452 Liters)

ANALYTICAL LABORATORIES

Collection Date: 9/9/2009

Received Date:

9/9/2009

TOTAL METALS

Method Reporting Analytical

0.0025

**Analytical Results** 

Units Date Analyzed

9/10/2009 6:12:00 PM

Used SW6010C Limit Result

< 0.0025

Qual

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686 Foll Free (888) 263-8686 Fax (801) 263-8687 fail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 9/14/2009 Page 4 of 8



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Richardson Flat

**AMERICAN** 

Lab Sample ID: 0909

WEST

0909160-004

ANALYTICAL LABORATORIES

Client Sample ID: PS-Hand Truck (414 Liters)

Collection Date:

9/9/2009

Received Date:

9/9/2009

**TOTAL METALS** 

Method

Reporting A

0.0025

Analytical

< 0.0025

Analytical Results

Lead

Units

mg/filter

**Date Analyzed** 9/10/2009 6:16:00 PM Used SW6010C Limit Result

Qual

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686 Toll Free (888) 263-8686

Fax (801) 263-8687

mail: awal@awal-labs.com

Kyle F. Gross Laboratory Director

> Jose Rocha QA Officer

> > •

D . D . 0/14/2000 D-. 5-5



american west analytical eaboratores

463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Laboratory Director

Jose Rocha QA Officer

# QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0909160

Project: Richardson Flat

Dept: ME

SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits		alysis Date
LCS-2963	Lead	mg/kg	SW6010C	21	20.00	0	104	75-125	9/10	0/2009

Report Date: 9/14/2009 Page 6 of 8



463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

# QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0909160

Project: Richardson Flat

Dept: ME

SampType: LCSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit Qualifiers	Analysis Date
LCSD-2963	Lead	mg/kg	SW6010C	20	20.00	0	101	75-125	2.93	20	9/10/2009

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide prescision data.

Report Date: 9/14/2009 Page 7 of 8



463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687

e-mail: awal@awal-labs.com, web: www.awal-labs.com

Laboratory Director

Jose Rocha QA Officer

# QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0909160

Project: Richardson Flat

Dept: ME

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	%RPD	RPD Limit Qualifiers	Analysis Date
MB-2963	Lead	mg/kg	SW6010C	< 5.0	-			-			9/10/2009

Report Date: 9/14/2009 Page 8 of 8

# **American West Analytical Laboratories**

# WORK ORDER Summary

09-Sep-09

**Work Order:** 0909160

WO Type: Standard

Reviewed by on

Client ID:

UNI100

Contact:

Kerry Gee

Project:

Richardson Flat

QC Level: LEVEL II+

Comments:

RMC client; QC2+; Email 2 People; Sample is a filter no pmoist;

they

				Hay		·					Sp
Sample ID	Client Sample ID	Date Collected	Date Received	Date Duc	Matrix	Test Code	Hld	MS	SEL	Sub	Storage
0909160-001A	PS-Up (510 Liters)	9/9/2009	9/9/2009 3:30:47 PM	9/23/2009	Filter	3051A-ICPMS-PR					desicator sept 9 - met
				9/23/2009		6010C-S			<b>V</b>		desicator sept 9 - met
	SEL Analytes: PB										
0909160-002A	PS-Down (477 Liters)			9/23/2009		3051A-ICPMS-PR					desicator sept 9 - met
				9/23/2009		6010C-S			✓		desicator sept 9 -
•	SEL Analytes: PB			•							
0909160-003A	PS-Hoe (452 Liters)			9/23/2009		3051A-ICPMS-PR					desicator sept 9 - met
				9/23/2009		6010C-S			✓		desicator sept 9 -
	SEL Analytes: PB		•								
0909160-004A	PS-Hand Truck (414 Liters)			9/23/2009		3051A-ICPMS-PR					desicator sept 9 - met
				9/23/2009		6010C-S			V		desicator sept 9 -
	SEL Analytes: PB			· · · · · · · · · · · · · · · · · · ·	· .	· · · · · · · · · · · · · · · · · · ·				·· ,	·

# RMC

# Laboratory Services Request Form

0909160

LO LENT INFORMATION	V			SEND REQUESTS TO:
	UNITED PARK CITY MINES	<b>国际的现在分词</b>	<u> 1978   Talana Tibona Faria da de Sebi broaza d</u>	American West
	PO BOX 1450 PARK CITY, UT	Γ 84060		Analytical Laboratories
				463 W. 3600 South
Client Phone:	435-608-0954		• .	Salt Lake City, UT
	435-615-1239		·	84115
II ACCOUNT INFORMAT	TON			
Account Name:				Patrick Noteboom
Sample Questions-	Todd Leeds RMC- 801-255	-2626		Phone # (801) 750-2585
CLI	1		. ^	Fax (801)-263-8687
TAT: Standar	ህ -	P.O. No: 1270	hardson Flat	
III REPORT INSTRUCTI	ONS			
Report Results To:	KERRY GEE- UPCM AND TO	ODD LEEDS - RMC	C FAX-255-3266	
Report Address:	PO BOX 1450 PARK CITY UT 84060	AND TODD LEEDS, R	MC, 8138 S. STATE ST., ST	E 2A, MIDVALE UT 84047
Please Forward Results	By: US Mail (X)	Fed Ex ( )	Fax (X ) Other	e Todd@r <u>mc-ut.com</u>
per manager and the first tracking the contraction of the contraction	ow are required no later than	and desired desired and a second		_ (date)
IV. TYPE OF SERVICE F	REQUESTED			
Please analyze the enclo	sed environmental samples for:	<u> </u>	<del>.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	`
Lab Use		Sampling	No.	
. ©nly	Field Sample	Date & Time	of	Analysis
Lab No.	No./Description		Cont.	Requested
P5-Up	(510 lites)	9-9-2009	1 93	
15-Down	(477)			
PS- Hove	(452 ")			
PS-Haul-	Truck (414 ")	A	J W	
·				
notes: Cd detection	limits must be <0.0008 ppm			
V. CHAIN OF CUSTODY	RECORD			
Dispatched by:		Date	Time	Courier Co. Name
Relinquished by:	- sa	Date 9-9-2009	Time (524	Airbill #
Received by:		Date 9/9/00	Time /5/4	Custody Seal Intact?
Received for lab by:		Date	Time	Yes No

	0909160	
Lab Set ID:	04041100	

Samples Were:	· · · · · · · · · · · · · · · · · · ·		C	OC Tap	e Was:				Container '	Type:		<del></del>		· N	o. Rec.	<del></del>
☐ Shipped By:	_		.		it on Ou				□ AWAL S	upplied F	Plastic					
Hand Delivered				ΩΥє	s en	lo 🗆 N	/A		□ AWAL S	upplied C	Clear Gla	iss			-	
Ambient				Unbrol	cen on O	uter pac	kage		□ AWAL St							
☐ Chilled	<del> </del>			ΠYe	s 🗆 N	lo <b>₽</b> N	/A		D AWAL S				Vials			
	16.1 °C			Pr	esent on				□ Amber □					ace .		
Rec. Broken/Leaki	ng □ Yes □ No	□ N/A		ДΥε	s DN	ο οN	/A		□ Non AWA	AL Shool	ied Con	tainer				
Notes:	<del>-                                    </del>				oroken o				Notes:				<del></del>			
		•		ПΥє						15/	b			•		
Properly Preserved	☐ Yes ☐ No	□ N/A	N	otes:		····································										
Notes:								.			٠.			:		
·										· · · · · · · · · · · · · · · · · · ·		·				7.
Rec. Within Hold	Ø Yes □ No					·			Discrepance	ies Betw	een Lab	els and	COC :		Yes	Ø No
Notes:								- [	Notes:							
						•		l	-							
								- {								
L	<del></del>	<del></del>			· "	···	<del></del>	[	<del></del>				· · · · · ·	· · ·	<del> </del>	
Daula Trans	Preservative	All alla OK		· ·	T	· · · ·	· ·		<del></del>	· · · · · ·	· 	<del>'                                    </del>	· ·	<del>' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' </del>	1	<del> </del>
Bottle Type Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>	All pHs OK	<del>\</del>	<del> </del>	<del> </del>		1		<del></del>			<del> </del> -	<del> </del>	<del> </del>	<del>                                     </del>	<del></del>
COD	pH <2 H <sub>2</sub> SO <sub>4</sub> pH <2 H <sub>2</sub> SO <sub>4</sub>	<del>                                     </del>	_	<del> </del>	<del>\</del>	ļ	<del> </del>		<del></del>	ļ			<del> </del>	<del> </del>	<del>                                     </del>	<del> </del>
Cyanide	PH >12 NaOH		-+	-	<u> </u>	-						<del> </del>		<del> </del>	<del> </del>	
Metals	pH <2 HNO <sub>3</sub>		$\overline{}$	<del> </del>		<del> </del>	ļ					-	<del> </del>	<del> </del>	<del> </del>	<del>                                     </del>
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>	<del>  </del>			<del>                                     </del>		<del> </del>	-				<del> </del>	-		<del> </del>	
Nutrients	pH <2 H <sub>2</sub> SO <sub>4</sub>			<del>\                                    </del>	<del>,</del> ,		<del>                                     </del>			<del>                                     </del>		<del> </del>			<del> </del>	+
O&G	pH <2 HCL			1		İ							<del> </del>	<del> </del> -	<del> </del>	<del> </del>
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>		<del></del>		<u> </u>		<u> </u>			<del></del>						
Sulfide	pH > 9NaOH, ZnAC		· · · · ·		· ·	1 .					1,1	1				1.
TKN	pH <2 H₂SO₄															
TOC	pH <2 H₃PO₄															
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>				\											
TPH	pH <2 HCL	·			<b>\</b>		1									
	· · · · · · · · · · · · · · · · · · ·			<u> </u>									· ·			
				<u> </u>	1									· .	<u> </u>	<u> </u>
						-						1	· ·			
				<u> </u>	$\bot \setminus c$	<u> </u>	Ll			<u>  </u>			<u></u>	·	İ	
Procedure: 1)		nt of sample in the s id gently over wide	sample l range n	id H paper	٠									•		
3)	Do Not dip the pH	paper in the sample	bottle c	or lid										:		
4)	If sample is not pre-	served properly list	its exter	nsion and	receiving	pH in the	appropriate	e co	lumn above				•			
5) 6)	Flag COC and notif		TSTIUCTIO	ın <b>s</b>												
. 7)			uest													



Kerry Gee

United Park City Mines Co.

WEST PO Box 1450

Park City, UT 84060-

TEL: (435) 608-0954 FAX (435) 615-1239

RE: Richardson Flat

463 West 3600 South Salt Lake City, Utah 84115

Dear Kerry Gee:

Lab Set ID: 0909160

American West Analytical Laboratories received 4 sample(s) on 9/9/2009 for the analyses presented in the following report.

(801) 263-8686 Foll Free (888) 263-8686 Fax (801) 263-8687 Fail: awal@awal-labs.com All analyses were performed in accordance to The NELAC Institute protocols unless noted otherwise. American West Analytical Laboratories is certified by The NELAC Institute in the following states: Utah, Colorado, Idaho, and Texas. Certification document is available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross Laboratory Director intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitaion limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is

Jose Rocha QA Officer

This is a revised report for a report originally issued on 9/14/2009. By client request, samples were re-analyzed by method SW6020A.

Thank You,

Approved by

Laboratory Director or designee

Report Date: 10/5/2009 Page 1 of 8



Client:

United Park City Mines Co.

Units

mg/filter

Contact: Kerry Gee

Project:

Lead

Richardson Flat

Lab Sample ID: **AMERICAN** 

0909160-001

WEST

Client Sample ID: PS-Up (510 Liters)

ANALYTICAL

9/9/2009

Received Date:

**LABORATORIES** 

9/9/2009

	TOTA	$\mathbf{L}$ N	ИEТ	AL	S
--	------	----------------	-----	----	---

**Analytical Results** 

Collection Date:

Method Reporting Analytical Used Limit Result Qual

< 0.00033

0.00033

463 West 3600 South Salt Lake City, Utah

84115

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

SW6020A

**Date Analyzed** 

10/1/2009 5:50:35 PM

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 mail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha OA Officer

> > > Report Date: 10/5/2009 Page 2 of 8



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Lead

Richardson Flat

Lab Sample ID: **AMERICAN** 

0909160-002

WEST

Client Sample ID: PS-Down (477 Liters)

ANALYTICAL **LABORATORIES** 

9/9/2009

Collection Date: Received Date:

9/9/2009

TOTAL METALS

Method

Reporting Analytical

Result Qual

**Analytical Results** 

Units mg/filter

Date Analyzed 10/1/2009 6:08:00 PM

Used SW6020A

Limit 0.00033

< 0.00033

463 West 3600 South Salt Lake City, Utah 84115

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

(801) 263-8686 II Free (888) 263-8686 Fax (801) 263-8687 il: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/5/2009 Page 3 of 8



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Richardson Flat

**AMERICAN** 

Lab Sample ID:

0909160-003

WEST

Client Sample ID: PS-Hoe (452 Liters)

ANALYTICAL **LABORATORIES** 

**Collection Date:** 9/9/2009

Received Date:

9/9/2009

TOTAL METALS

Method

Reporting

Analytical

0.0011

**Analytical Results** 

Units

mg/filter

Date Analyzed

Used

Limit

Result Qual

Lead

10/1/2009 6:13:48 PM

SW6020A

0.00033

463 West 3600 South Salt Lake City, Utah 84115

^- Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 mail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/5/2009 Page 4 of 8



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Richardson Flat

AMERICAN

0909160-004

WEST

Client Sample ID: PS-Hand Truck (414 Liters)

mg/filter

ANALYTICAL LABORATORIES

Collection Date: 9/9/2009 Received Date: 9/9/2009

TO	LY.	1 . T	ME.	$\mathbf{T}_{i}$	ΔĬ.	S
			711	1 1 /		

Lab Sample ID:

Method Reporting Analytical Used Limit Result

Analytical Results

Lead

Units Date Analyzed

SW6020A

0.00033 < 0.00033

Qual

463 West 3600 South

Salt Lake City, Utah 84115

^- Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

10/1/2009 6:19:37 PM

(801) 263-8686 oll Free (888) 263-8686 Fax (801) 263-8687

ail: awal@awal-labs.com

Kyle F. Gross Laboratory Director

> Jose Rocha QA Officer

> > Report Date: 10/5/2009 Page 5 of 8



463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

# QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0909160

Project: Richardson Flat

Dept: ME

SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit Qualifiers	Analysis Date
LCS-2963	Lead	mg/kg	SW6020A	20	20.00	0	100	85-115			10/1/2009

Report Date: 10/5/2009 Page 6 of 8



463 West 3600 South
Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com Laboratory Director

Jose Rocha QA Officer

# QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0909160

Project: Richardson Flat

Dept: ME

SampType: LCSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit Qualifiers	Analysis Date
LCSD-2963	Lead	mg/kg	SW6020A	20	20.00	0	100	85-115	. 0.132	20	10/1/2009

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide prescision data.

Report Date: 10/5/2009 Page 7 of 8



463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

# QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0909160

Project: Richardson Flat

Dept: ME

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	%RPD	RPD Limit Qualifiers	Analysis Date
MB-2963	Lead	mg/kg	SW6020A	< 0.65				•			10/1/2009

Report Date: 10/5/2009 Page 8 of 8

# **American West Analytical Laboratories**

## **WORK ORDER Summary**

Client ID:

UNI100

Contact:

Kerry Gee

Project:

Comments:

Richardson Flat

ینا میں QC Level: LEVEL II+ هم وط 01-Oct-09

Work Order: 0909160 WO Type: Standard

Sample re-analyzed by method 602 Reviewed by Samantha Broadhead on 9/9/2009

RMC client; QC2+; Email 2 People; Sample is a filter no pmoist. Metals by 6020 added 10/1/09-RW;

Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage
0909160-001A	PS-Up (510 Liters)	9/9/2009	9/9/2009 3:30:47 PM	9/23/2009	Filter	3051A-ICPMS-PR					desicator sept 9 - mei
				9/23/2009		6010C-S			V	П	desicator sept 9 - mei
	SEL Analytes: PB						_				
				9/23/2009		6020-S			<b>V</b>		desicator sept 9 - mei
	SEL Analytes: PB										
0909160 <b>-</b> 002A	PS-Down (477 Liters)			9/23/2009		3051A-ICPMS-PR					desicator sept 9 - mei
				9/23/2009		6010C-S	П		<b>V</b>		desicator sept 9 - mei
	SEL Analytes: PB				_		_				
				9/23/2009		6020-S			$\checkmark$		desicator sept 9 - mei
	SEL Analytes: PB									_	
0909160-003A	PS-Hoe (452 Liters)			9/23/2009	,	3051A-ICPMS-PR	. 🗆				desicator sept 9 - mei
				9/23/2009		6010C-S	_ 		V	П	desicator sept 9 - mei
	SEL Analytes: PB						_			_	
				9/23/2009		6020-S			<b>V</b>		desicator sept 9 - mei
	SEL Analytes: PB										
0909160-004A	PS-Hand Truck (414 Liters)			9/23/2009		3051A-ICPMS-PR	. 🗆				desicator sept 9 - mei
				9/23/2009		6010C-S			<b>V</b>	П	desicator sept 9 - mei
	SEL Analytes: PB						<u> </u>	_	_		
				9/23/2009		6020-S			V	$\overline{\Box}$	desicator sept 9 - mei
	SEL Analytes: PB						_		_	_	

# American West Analytical Laboratories

## WORK ORDER Summary

09-Sep-09

Work Order: 0909160

WO Type: Standard

Client ID:

UNI100

Contact:

Kerry Gee

Project:

Richardson Flat

QC Level: LEVEL II+

Reviewed by on

Comments: RMC client; QC2+; Email 2 People; Sample is a filter no pmoist;

Comments:	NWC then, QCZ+, Ema		a med no phioisi,	•		•					Spo
Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage
0909160-001A	PS-Up (510 Liters)	9/9/2009	9/9/2009 3:30:47 PM	9/23/2009	Filter	3051A-ICPMS-PR		Π.			desicator sept 9 - met
				9/23/2009		6010C-S			<b>V</b>		desicator sept 9 - met
	SEL Analytes: PB				_						
0909160-002A	PS-Down (477 Liters)			9/23/2009		3051A-ICPMS-PR					desicator sept 9 - met
				9/23/2009		6010C-S			V		desicator sept 9 - met
	SEL Analytes: PB						•				
0909160-003A	PS-Hoe (452 Liters)			9/23/2009		3051A-ICPMS-PR					desicator sept 9met
				9/23/2009		6010C-S			V		desicator sept 9 - met
	SEL Analytes: PB								•		
0909160-004A	PS-Hand Truck (414 Liters)			9/23/2009		3051A-ICPMS-PR			□·		desicator sept 9 - met
				9/23/2009	, , , , , , , , , , , , , , , , , , ,	6010C-S			<b>V</b>		desicator sept 9 -
	SEL Analytes: PB		·	· · · ·		<u> </u>		· · ·	<u> </u>		

# RMC

Laboratory Services Request Form

0909160

CHENTINFORMATION:			SEND REQUESTS TO:
Client Name: UNITED PARK CITY MINES			American West
Client Address: PO BOX 1450 PARK CITY, UT	84060		Analytical Laboratories
<del></del> ,	·		463 W. 3600 South
Client Phone: 435-608-0954			Salt Lake City, UT
Client Fax: 435-615-1239			84115
II ACCOUNTINFORMATION 1			
Account Name:			Patrick Noteboom
Sample Questions- Todd Leeds RMC- 801-255-2	2626		Phone # (801) 750-2585
TAT: Standard	· · · · · · · · · · · · · · · · · ·	A- C/A-	Fax (801)-263-8687
• • • • • • • • • • • • • • • • • • • •	P.O. No: 1-10	nordson Flat	
III-REPORTINSTRUCTIONS			
Report Results To: KERRY GEE- UPCM AND TO			
Report Address: PO BOX 1450 PARK CITY UT 84060 A			
Please Forward Results By: US Mail (X)	Fed Ex ( )	Fax (X) Othe	Todd@rmc-ut.com
Services Requested below are required no later than			(date)
Please analyze the enclosed environmental samples for:	01		· · · · · · · · · · · · · · · · · · ·
B. B. B. B. B. B. B. B. B. B. B. B. B.	' "	No.	A
	Date & Time	of Cont	Analysis
No./Description    P5-Uρ (SIO 1ites)	9-9-2009	Cont.	Requested
15-Down (477 1)	1-1-1001	1 PJ	· · · · · · · · · · · · · · · · · · ·
15- Hue (452 "1)	-	1 1	<del></del>
PS-Hant Truck (414 ")	1	1	
12- Elan 11 more ( 111 11)			<del></del>
		<u> </u>	<u> </u>
			·
			<del></del>
Od datastian limits must be <0.0009 nnm	<u></u>	l	
notes: Cd detection limits must be <0.0008 ppm V CHAIN OF CUSTODY RECORD			
Dispatched by:	Date	Time	Courier Co. Name
Relinquished by:	Date 9-9-2009	Time (5:14	Airbill#
Received by:	Date 9/9/00	Time /5/4	Custody Seal Intact?
Received for lab by:	Date	Time	Yes No

r 1 0 4 m	0909160	:
Lab Set ID: _	V IV II(VV	

•												<del>.,</del>	<del></del>			
Samples Were:				OC Tap	e Was:				Container	Type:		<del></del>		· ]	Vo. Rec.	
☐ Shipped By:			7		nt on O		kage		DAWALS	upplied	Plastic					
Hand Delivered				□ Ye	es en	√0 □N	I/A		DAWAL Supplied Clear Glass							
Ambient			_	Unbro	ken on C	outer pa	ckage		☐ AWAL Supplied Amber Glass							
☐ Chilled			7	ΩYe	es 🗆 N	10 <u>0</u> 1∕	Ī/Α		DAWALS				Vials			
	16.1 °C			Pı	esent or	1 Sample	<del></del>		🛘 Amber 🖺	** }				ace .		
Rec. Broken/Leak		□ N/A		ΟY		-		•	□ Non AW						· · · ·	
Notes:			1		broken o				Notes:		B		· · · · · · · · · · · · · · · · · · ·			
_				ДΥ€	es 🗆 d	10 DAŠ	ĺΑ		,	. 2	B.		•			
Properly Preserve	d 🖸 Yes 🗆 No	□ N/A	N	otes:											,	
Notes:					. •	: .		.						•		
·		<u> </u>	_									<u>·</u>		٠ .		
Rec, Within Hold	Ŭ Yes □ No		_						Discrepanc	ies Betw	een Lal	bels and	COC .	· [	Yes	Ø No
Notes:	,	•		٠.					Notes:			·.		,	•	
	· ·	•					٠			1.0						
			1				•	Ì		•						
<u> </u>	<del></del>	<del></del>	ــــــــــــــــــــــــــــــــــــــ	<del></del>	<del></del>	<del>,                                     </del>	<del>.</del>	ᆛ			· <del></del>	<del>.`</del>	<del></del> .	<del></del>	<del></del>	J
Bottle Type	Preservative	. All pHs OK	<del></del>	Ţ. <u> </u>	<del></del>	<del></del> -	1	·	<del></del>	<del>i -</del>	· ·	Τ	T	T	<del></del>	<del></del>
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>	1	÷	<u> </u>	<del> </del>	<del>                                     </del>	1		<del></del>	· ·	1 . :			-	<del> </del>	<del>                                     </del>
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>		J	1		1	· · · · ·	-		· ·		-	<del> </del> -		· · · · · ·	
Cyanide	PH >12 NaOH		4:				1	,		· ·	1.					1
Metals	pH <2 HNO₃		1													
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H₂SO₄															
Nutrients	pH <2 H₂SO₄			\					-		·					
0 & 0	pH <2 HCL				1.7	1	-			-					`	
Phenols .	pH <2 H₂SO₄						· '					1	·	. ·	<u> </u>	
Sulfide	pH > 9NaOH, ZnAC	ļ		<del>   </del>		<u> </u>	<u> </u>						<u> </u>		ļ	<u>                                     </u>
TKN	pH <2 H₂SO₄					ļ	<u> </u>								-	
TOC	pH <2 H₃PO₄		·	<del>  _ \</del>	-	···	<u> </u>					-			<del> </del>	
TPO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>			<u> </u>	<del></del>	<del> </del>	<del>                                     </del>			•	··	<del>}</del>	· · ·		<del> </del>	
TPH'	1 DH < / H( )			1	13	1			.1			.,				

Procedure:

- Pour a small amount of sample in the sample lid
  Pour sample from Lid gently over wide range pH paper
  Do Not dip the pH paper in the sample bottle or lid
  If sample is not preserved properly list its extension and receiving pH in the appropriate column above
  Flag COC and notify client for further instructions
  Place client conversation on COC
  Samples may be adjusted at client request



Kerry Gee

AMERICAN United Park City Mines Co.

WEST PO Box 1450 ANALYTICAL

Park City, UT 84060-

LABORATORIES

TEL: (435) 608-0954 FAX (435) 615-1239

RE: Richardson Flat

463 West 3600 South Salt Lake City, Utah 84115

Dear Kerry Gee:

Lab Set ID: 0910411

American West Analytical Laboratories received 4 sample(s) on 10/22/2009 for the analyses presented in the following report.

(801) 263-8686 Free (888) 263-8686 Fax (801) 263-8687 l: awal@awal-labs.com All analyses were performed in accordance to The NELAC Institute protocols unless noted otherwise. American West Analytical Laboratories is certified by The NELAC Institute in the following states: Utah, Colorado, Idaho, and Texas. Certification document is available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross Laboratory Director

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitaion limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit.

Jose Rocha QA Officer

Thank You,

Laboratory Director or designee

Report Date: 10/29/2009 Page 1 of 8



Client:

Lead

United Park City Mines Co.

mg/filter

Contact: Kerry Gee

Project:

Richardson Flat

AMERICAN

Lab Sample ID: 0910411-001

WEST

Client Sample ID: PS-Up (903 Liters)

ANALYTICAL

10/22/2009

**LABORATORIES** 

10/22/2009

TOTAL METALS

Method 1

Reporting Analytical

0.00033

**Analytical Results** 

**Collection Date:** 

Received Date:

Units Date Analyzed

10/26/2009 10:49:02 PM

Used

SW6020A

Limit Result

< 0.00033

....

Qual

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686

Toll Free (888) 263-8686

Fax (801) 263-8687

-mail: awal@awal-labs.com

Kyle F. Gross Laboratory Director

> Jose Rocha QA Officer

> > Report Date: 10/29/2009 Page 2 of 8



**Date Analyzed** 

Client:

Lead

United Park City Mines Co.

Units

mg/filter

Contact: Kerry Gee

**AMERICAN** 

Project: Richardson Flat

Lab Sample ID:

0910411-002

WEST

ANALYTICAL Collection Date:

Client Sample ID: PS-Down (933 Liters)

LABORATORIES Received Date:

10/22/2009

10/22/2009

TO	TAL.	MET.	AT.S
$\mathbf{I} \mathbf{V}$		112271	

**Analytical Results** 

Method Reporting Analytical Used Limit Result Qual SW6020A 10/26/2009 11:06:30 PM

< 0.00033

0.00033

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686 oll Free (888) 263-8686 Fax (801) 263-8687 ail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/29/2009 Page 3 of 8



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Richardson Flat

AMERICAN Lab Sample ID:

0910411-003

ANALYTICAL Collection Date: LABORATORIES Received Date:

WEST Client Sample ID: PS-Hoe (846 Liters)

10/22/2009

10/22/2009

TO	TA	$\mathbf{L}$	VI)	$\mathbf{ET}$	Α	LS

TOTAL METALS			Method	Reporting	Analytical	
<b>Analytical Results</b>	Units	Date Analyzed	Used	Limit	Result	Qual
Lead	mg/filter	10/26/2009 11:12:19 PM	SW6020A	0.00033	< 0.00033	

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 -mail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/29/2009 Page 4 of 8



Client:

Lead

United Park City Mines Co.

Contact: Kerry Gee

Project:

Richardson Flat

**AMERICAN** 

Lab Sample ID:

0910411-004

WEST

84115

ANALYTICAL Collection Date: **LABORATORIES** 

Client Sample ID: PS-Haul Truck (852 Liters)

10/22/2009

**Received Date:** 

10/22/2009

TOTAL METALS

Method

Reporting

0.00033

Analytical

0.00042

**Analytical Results** 

Units

mg/filter

Date Analyzed

10/26/2009 11:18:08 PM

Used SW6020A Limit Result

Qual

463 West 3600 South Salt Lake City, Utah

(801) 263-8686

ll Free (888) 263-8686

Fax (801) 263-8687

ail: awal@awal-labs.com

Kyle F. Gross Laboratory Director

> Jose Rocha QA Officer

> > Report Date: 10/29/2009 Page 5 of 8



463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross . Laboratory Director

Jose Rocha QA Officer

# QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0910411

Project: Richardson Flat

Dept: ME

SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD RPD Limit Qualifiers	Analysis Date
LCS-3609	Lead	mg/kg	SW6020A	20	20.00	. 0	. 100	85-115		10/26/2009

Report Date: 10/29/2009 Page 6 of 8



463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha QA Officer

## QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0910411

Project: Richardson Flat

Dept: ME

SampType: LCSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	%RPD	RPD Limit Qualifier	Analysis S Date
LCSD-3609	Lead	mg/kg	SW6020A	20	20.00	0	98.8	85-115	1.45	20	10/26/2009

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide prescision data.

Report Date: 10/29/2009 Page 7 of 8



463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

# QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0910411

Project: Richardson Flat

Dept: ME

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit Qualifiers	Analysis Date
MB-3609	Lead	mg/kg	SW6020A	< 0.65				-			10/26/2009

Report Date: 10/29/2009 Page 8 of 8

**American West Analytical Laboratories** 

# **WORK ORDER Summary**

28-Oct-09

**Work Order:** 0910411

WO Type: Standard

Client ID:

UNI100

Contact:

Кетту Сее

Project:

Richardson Flat

QC Level: LEVEL II+

Reviewed by Samantha Broadhead on 10/22/2009

Comments:

2 day RUSH added 10/28/09 per Todd Leeds. RMC client: Email copy of report to Todd Leeds; QC2+; Sample is a filter no pmoist.;

Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage	
0910411-001A	PS-Up (903 Liters)	10/22/2009	10/22/2009 5;46:01 PM	10/30/2009	Filter	3051A-ICPMS-PR					desicator	
				10/30/2009		6020-S	· 🗀		<b>✓</b>		desicator	
	SEL Analytes: PB											
0910411-002A	PS-Down (933 Liters)			10/30/2009		3051A-ICPMS-PR					desicator	
		<u>.</u>		10/30/2009		6020-S				П	desicator	
	SEL Analytes: PB		-				_	_				•
0910411-003A	PS-Hoe (846 Liters)			10/30/2009		3051A-ICPMS-PR					desicator	
				10/30/2009		6020-S	П	П	<b>V</b>	$\Box$	desicator	٠,
	SEL Analytes: PB						_		_			
0910411-004A	PS-Haul Truck (852 Liters)			10/30/2009		3051A-ICPMS-PR				· 🗀	desicator	
				10/30/2009		6020-S	П		V		desicator	
	SEL Analytes: PB	·					_		ت			

# American West Analytical Laboratories

#### **WORK ORDER Summary**

22-Oct-09

Work Order: 0910411

WO Type: Standard

Client ID:

UNI100

Contact:

Kerry Gee

Project:

Richardson Flat

QC Level: LEVEL II+

~l~

Reviewed by on

Comments: RMC client: Email copy of report to Todd Leeds; QC2+; Sample is a filter no pmoist,

Test Code Hld MS SEL Sub Storage Client Sample ID Date Due Sample ID **Date Collected** Date Received Matrix PS-Up (903 Liters) 3051A-ICPMS-PR 0910411-001A 10/22/2009 10/22/2009 5:46:01 PM 11/5/2009 Filter desiccator 11/5/2009 6020-S V desiccator SEL Analytes: PB 0910411-002A PS-Down (933 Liters) 11/5/2009 3051A-ICPMS-PR desiccator  $\checkmark$ 11/5/2009 6020-S desiccator ' SEL Analytes: PB 11/5/2009 3051A-ICPMS-PR 0910411-003A PS-Hoe (846 Liters) desiccator desiccator 6020-S V 11/5/2009 SEL Analytes: PB PS-Haul Truck (852 Liters) 11/5/2009 3051A-ICPMS-PR desiccator 0910411-004A 11/5/2009 6020-S ✓ desiccator SEL Analytes: PB

# **RMC**

## Laboratory Services Request Form

		Miles Files - Consultrensia No	onarda (Alfahan)		
	)N				SEND REQUESTS TO:
Client Name:	UNITED PARK CITY MINES	<del></del>			American West
Client Address:	PO BOX 1450 PARK CITY, UT	Analytical Laboratories			
					463 W. 3600 South
Client Phone:			•		Salt Lake City, UT
the analysis of the second sec	435-615-1239	Parks and A Parks of control to an unusual	Oddinas (Arvorde)	0.085911741 (9.05888881795.05	84115
II. ACCOUNT INFORM	ATION				•
Account Name:		· ·			Patrick Noteboom
Sample Questions-	Todd Leeds RMC- 801-255	-2626			Phone # (801) 750-2585
1 1 M	. 4	P.O. No: Rich	0 -		Fax (801)-263-8687
TAT: Stando	A tria, su servera a como ou reservada a como esta como de se deservada esta de esta de esta de esta de esta d	renderenda ero oz ilentilan el Reve illen bezentez.	arason	Plat.	antinista (f. 1804).
	TIONS				
Report Results To:	KERRY GEE- UPCM AND TO	DDD LEEDS - RMC	FAX-255	5-3266	
	PO BOX 1450 PARK CITY UT 84060				
Please Forward Resul	Its By: US Mail(X)	Fed Ex ( )	Fax ()	() Othe	Todd@rmc-ut.com
	elow are required no later than		Francis III Star	সেই নালী বাহলকুইটিছ	(date)
IV TYPE OF SERVICE	REQUESTED				
Please analyze the enc	losed environmental samples for:	·	,		
Lab Use		Sampling	No.		
Only	Field Sample	Date & Time	of	<b>"</b> "	Analysis
Lab No	No./Description		Cont.	<u> </u>	Requested
PS-Up		10/22/2009	1	Pb	
P5-Dow	n = (933  i)	<u> </u>			
PS- Hue	(896 11)	1			
PS- Hou	Truck (788856 11)	4	1	Ψ	
					<u>-</u>
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			<u> </u>		
			<u> </u>		
notes: Gel detection	on limits must be <0.0008 ppm	Jouest Ava	ilable	Detection	Limit
V CHAIN OF CUSTO	)Y RECORD		Silver &	sausaradise vadapas Sastantinistis	
Dispatched by:		Date	Time		Courier Co. Name
		_Date 10/22/09	Time \	7!17	Airbill #
Relinquished by:	7/1	10/-60	1-	11-1	1
Received by: / ¿		Date 10/27/09	Time /	Ш./	Custody Seal Intact?
Received for lab by		Date	Time		Yes No

	·											•					
Samples Were:			COC Tape Was:					Container Type:						N	No. Rec.		
☐ Shipped By:			Present on Outer Package					☐ AWAL Supplied Plastic									
Hand Delivered			} [	] Yes	s d'N	0 DN	/A		□ A	WAL St	ipplied (	Clear Gla	SS ·				
Ambient			Unbroken on Outer package					□ A	WAL St	ipplied A	Amber G	lass					
☐ Chilled			} (	Yes	з ПΝ	O EN	/A		☐ AWAL Supplied VOA/TOC/TOX Vials								
Temperature 1	4.4 °C	•		Pre	esent on				☐ Amber ☐ Clear ☐ Headspace ☐ No Headspace						ace		
Rec. Broken/Leak	ing □ Yes ☑No	□ N/A	] . [	] Yes	i ØN	o 🗆 N	/A					lied Cont		•			
Notes:				Unb	roken o	n Samp	le		Not	es:	, (	122					
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			]			•		Ŀ							• • •		
Rec. Within Hold Yes 🗆 No			}					<u> </u>			es Betw	een Lab	els and (	COC		Yes	Z No.
Notes:		•							Not	es:		•	•				
											-				•	<i>.</i>	
l	•	·							•			,					
				<del></del>		<del> </del>			<del>-</del> -	·					<del>.</del>		J
Bottle Type	Preservative	All pHs OK	<del></del>			<u> </u>	1	Т		·	<u> </u>	<del></del>	<u>·</u>	T	T		·
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>	\ \			· · · · ·			+-				1.5	:			<del>                                     </del>	
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<del> </del>		<del></del>					:		· · · · · ·				1	<del>  </del>
Cyanide	PH >12 NaOH	\		_				<del>                                     </del>									
Metals	pH <2 HNO₃											·					
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																
Nutrients	pH <2 H <sub>2</sub> SO <sub>4</sub>												1.		1 1		
O&G	pH <2 HCL		1		4.5.	:											
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>		\	· .													
Sulfide	pH > 9NaOH, ZnAC	<u> </u>		-							·	· ·					<u> </u>
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>		-					ļ				· · · · · · · · · · · · · · · · · · ·					
TOC	pH <2 H₃PO₄	· ·		\I	<u></u>			<u> </u>					· · · · · · · · · · · · · · · · · · ·	* *.			<u> </u>
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>			1-1					<u>·</u> ·	·				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
TPH	pH <2 HCL			-			<del> </del>	<u> </u>		·						·	

Procedure:

Pour a small amount of sample in the sample lid
Pour sample from Lid gently over wide range pH paper
Do Not dip the pH paper in the sample bottle or lid
If sample is not preserved properly list its extension and receiving pH in the appropriate column above
Flag COC and notify client for further instructions
Place client conversation on COC
Samples may be adjusted at client request 4) 5) 6) 7)



Kerry Gee

United Park City Mines Co. **AMERICAN** 

WEST ANALYTICAL

PO Box 1450

**LABORATORIES** 

Park City, UT 84060-

TEL: (435) 608-0954 FAX (435) 615-1239

RE: Richardson Flat

463 West 3600 South Salt Lake City, Utah

Dear Kerry Gee:

Lab Set ID: 0909159

84115

American West Analytical Laboratories received 1 sample(s) on 9/9/2009 for the analyses presented in the following report.

(801) 263-8686 Free (888) 263-8686 Fax (801) 263-8687 il: awal@awal-labs.com All analyses were performed in accordance to The NELAC Institute protocols unless noted otherwise. American West Analytical Laboratories is certified by The NELAC Institute in the following states: Utah, Colorado, Idaho, and Texas. Certification document is available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross Laboratory Director

> Jose Rocha OA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitaion limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit.

Thank You,

Approved by:

Lose 6. Rocho

Laboratory Director or designee

Report Date: 9/14/2009 Page 1 of 6



Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Richardson Flat

**AMERICAN** 

WEST

0909159-001

Client Sample ID: CV-TS81409

ANALYTICAL **LABORATORIES** 

8/14/2009

Collection Date: Received Date:

Lab Sample ID:

9/9/2009

TOTAL	METALS

TOTAL METALS			Method	Reporting	Analytical	
Analytical Results	Units	Date Analyzed	Used	Limit	Result	Qual
Arsenic	mg/kg-dry	9/10/2009 4:00:00 PM	SW6010C	5.2	9.0	
Lead	mg/kg-dry	9/10/2009 4:00:00 PM	SW6010C	5.2	21	3

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 iail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 9/14/2009 Page 2 of 6

<sup>3 -</sup> Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.



american west analytical laboratories

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com

Laboratory Director

Jose Rocha QA Officer

# QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0909159

Project: Richardson Flat

Dept: ME

SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	Analysis %RPD RPD Limit Qualifiers Date
LCS-2962	Arsenic	mg/kg	SW6010C	20	20.00	0	98.8	75-125	9/10/2009
LCS-2962	Lead	mg/kg	SW6010C	20	20.00	0	99.3	75-125	9/10/2009

Report Date: 9/14/2009 Page 3 of 6



463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

### QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0909159

Project: Richardson Flat

Dept: ME

SampType: MBLK

Sample ID	Analyte		Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	%RPD	RPD Limit Qualifiers	Analysis Date
MB-2962	Arsenic		mg/kg	SW6010C	< 5.0				. •			9/10/2009
MB-2962	Lead	,	mg/kg	SW6010C	< 5.0				-			9/10/2009

Report Date: 9/14/2009 Page 4 of 6



american west analytical laboratories

463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Laboratory Director

Jose Rocha QA Officer

#### QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0909159

Project: Richardson Flat

Dept: ME

SampType: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit Qualifiers	Analysis Date
0909159-001AMS	Arsenic	mg/kg-dry	SW6010C	36	21.44	8.959	125	75-125			9/10/2009
0909159-001AMS	Lead	mg/kg-dry	SW6010C	73	21.44	20.83	243	75-125		3	9/10/2009

<sup>.</sup> Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.

Report Date: 9/14/2009 Page 5 of 6



463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

### QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0909159

Project: Richardson Flat

Dept: ME

SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
0909159-001AMSD	Arsenic	mg/kg-dry	SW6010C	32	22.10	8.959	106	75-125	10.1	20		9/10/2009
0909159-001AMSD	Lead	mg/kg-dry	SW6010C	45	22.10	20.83	111	75-125	46.7	20	3	9/10/2009

<sup>&</sup>lt;sup>3</sup> - Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.

Report Date: 9/14/2009 Page 6 of 6

### **American West Analytical Laboratories**

### WORK ORDER Summary

09-Sep-09

Work Order: 0909159

WO Type: Standard

Client ID:

UNI100

Contact:

Kerry Gee

Project:

Richardson Flat

QC Level: LEVEL II+

Reviewed by on

Comments:

RMC client; QC2+; Email 2 People;

			·	HOK-UB	·						
Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL Sul	Storage -	
0909159-001A	CV-TS81409	8/14/2009	9/9/2009 3:30:39 PM	9/23/2009	Soil	3051A-ICPMS-PR					
		<u> </u>		9/23/2009		6010C-S		П			_

SEL Analytes: AS PB

9/23/2009

PMOIST

# **RMC**

### Laboratory Services Request Form

0909159

I. CLIENT IN	IFORMATION					SEND REQUESTS	TO:
Client Nam	ie:	UNITED PARK CITY MINES				American West	
Client Addr	ess:	PO BOX 1450 PARK CITY, UT	84060			Analytical Laborat	ories
				•		463 W. 3600 South	
Client Phor		435-608-0954				Salt Lake City, U	IT
Client Fax:	ent first control of the control	435-615-1239	TON LIGHT OF THE PARTY OF THE P	walkers om til Villand		84115	
II. ACCOUN	TINFORMAT	ION					
Account Na				<del></del>		Patrick Noteboom	
Sample Qı	uestions <u>-</u>	Todd Leeds RMC- 801-255	-2626			Phone # (801) 750-	
TAT:	Standa	. L	P.O. No: 22	hadso.	EL+	Fax (801)-263-868	7
Proposition and Managery	900 o	. O DNS	COLUMN TO THE PROPERTY OF THE PARTY OF THE P		) (a)		
		KERRY GEE- UPCM AND TO		: FAX-254	5-3266	<b>服制机 化学系会员的基地联络 2005。图图</b>	<u> </u>
	<del></del> -	PO BOX 1450 PARK CITY UT 84060				2A. MIDVALE LIT 84047	,
	rward Results						
Services R	Requested belo	ow are required no later than				(date)	
IV. TYPE OF	F SERVICE R	EQUESTED					
_		sed environmental samples for:	The second secon	and a second of the Second of			
.Lab ∪se			Sampling	No.			
Only	ı	Field Sample	Date & Time	of		Analysis	
Lab No.		No./Description		Cont.		Requested	
	CV-T	5 81409	8-14-2009		Pb+	As	
<u> </u>		<u> </u>					
				<del> </del>	<u> </u>		
		·		<u> </u>			
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			<u> </u>	<u> </u>	<u></u>	·	
_ notes: V=CHAIN C	Cd detection OF CUSTODY	limits must be <0.0008 ppm RECORD					
Dispatched b	ру:		Date	Time		Courier Co. Name	
Relinquished	1 by:		Date 9-9-2009	Time (5	5:14	Airbill #	
Received by	1/1/		Date 9/9/09	Time /	5/4	Custody Seal Intact?	
Received for	lab by:		Date	Time		Yes	No

Lab Set ID:

Samples Were:			C	OC Tap					Cont	ainer I	Гу\ре:				N	o. Rec.	
☐ Shipped By:				Preser	t on Ou	ter Pacl	cage		DAV	VAL Sı	phlied F	lastic					
Hand Delivered				□ Ye	s ZIN	o □N	/A ·		□ AV	VAL Si	ipplied (	Clear Gla	RSS				
2 Ambient				Unbrok	en on O	uter pag	kage		□AW	VAL St	pplied A	inber G	lass				
☐ Chilled	<del></del>			□Ye	s 🗆 N	o ØN	/A .				ipplied V			Vials		-	
	75.7 °C			Pr	esent on	Sample			1		\			Headsp	ace		
Rec. Broken/Leak	ing DYes No	□ N/A		□Ye	s ØN	0 DN	/A_				L Suppl						•
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Properly Preserved	i	□ N/A	N	otes:													
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Rec. Within Hold	☑ Yes □ No	<del> </del>				• .					es Betw	een Lab	els and	coc .		Yes	ØNo_
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Bottle Type	Preservative	All pHs QK				T	T	$\top$	$\neg \tau$	· · · · · · · · · · · · · · · · · · ·		· · ·	1	7	T	T	1
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>					<del> </del>	· · ·	1-	<u> </u>			:			1	<del>                                     </del>	
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>						· ·	1						<del> </del>	<u> </u>	1	
Cyanide	PH >12 NaOH	1		: .	i				.					1		1 :	
Metals	pH <2 HNO₃	./	\ .			1								1.			
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>		<u> </u>		1												
Nutrients	pH <2 H <sub>2</sub> SO <sub>4</sub>		1					I							- 1, T.		
O&G	pH <2 HCL				τ.												
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>				, ,			1									·
Sulfide	pH > 9NaOH, ZnAC																
TKN	pH <2 H₂SO₄			1		· · ·		<u> </u>	·				<u> </u>	ļ	<u> </u>	ļ	
TOC	pH <2 H <sub>3</sub> PO <sub>4</sub>			<b>\</b>				4_							ļ ·		ļ
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>		<u> </u>	<del>  \                                   </del>			<u> </u>	$\bot$				· · ·	ļ			<u> </u>	
TPH	pH <2 HCL		·	<del>                                     </del>				<del> </del>			· .		<u> </u>		<u> </u>	<u> </u>	1
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Procedure: 1 2 3 4 5 5 7 7	Pour sample from L Do Not dip the pH   If sample is not pred Flag COC and notif Place client convers	id gently over wide paper in the sample served properly list y client for further in sation on COC	range pe bottle di its extensitation	H paper or lid nsion and	receiving	pH in the	appropria	ate co	olumn at	oove.				:			



Kerry Gee

AMERICAN

United Park City Mines Co.

WEST ANALYTICAL LABORATORIES PO Box 1450 Park City, UT 84060-

TEL: (435) 608-0954

FAX (435) 615-1239

RE: Richardson Flat

463 West 3600 South Salt Lake City, Utah 84115

Dear Kerry Gee:

Lab Set ID: 0910412

American West Analytical Laboratories received 2 sample(s) on 10/22/2009 for the analyses presented in the following report.

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 mail: awal@awal-labs.com All analyses were performed in accordance to The NELAC Institute protocols unless noted otherwise. American West Analytical Laboratories is certified by The NELAC Institute in the following states: Utah, Colorado, Idaho, and Texas. Certification document is available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross Laboratory Director

> Jose Rocha QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitaion limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit.

Thank You,

Approved by

Laboratory Director or decigned



Client:

United Park City Mines Co.

Contact: Kerry Gee

**AMERICAN** 

Project: Richardson Flat

Lab Sample ID:

0910412-001

Client Sample ID: CUB1W-1

ANALYTICAL Collection Date:

10/13/2009

LABORATORIES Received Date:

10/22/2009

TOTAL METAL	S
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TOTAL METALS			Method	Reporting	Analytical	
Analytical Results	Units	Date Analyzed	Used	Limit	Result	Qual
Arsenic	mg/kg-dry	10/28/2009 4:03:00 PM	SW6010C	6.1	18	3
Lead	mg/kg-dry	10/28/2009 4:03:00 PM ·	SW6010C	6.1	. 37	ż

463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686 II Free (888) 263-8686 Fax (801) 263-8687 il: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer -

> > > Report Date: 10/29/2009 Page 2 of 7

<sup>&</sup>lt;sup>3</sup> - Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.



#### INORGANIC ANALYTICAL REPORT

Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Lab Sample ID:

Richardson Flat

**AMERICAN** 

84115

0910412-002

ANALYTICAL Collection Date:

Client Sample ID: SLB1W-1 10/13/2009

LABORATORIES Received Date:

463 West 3600 South Salt Lake City, Utah

10/22/2009

	TOT	$\mathbf{AL}$	ME	TA	$\mathbb{L}S$
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	IOIAL METALS	•		Method	Reporting	Analytical	
	Analytical Results	Units	Date Analyzed	Used	Limit	Result	Qual
,	Arsenic	mg/kg-dry	10/28/2009 4:19:00 PM	SW6010C	5.3	80	·-····
1	Lead	mg/kg-dry	10/28/2009 4:19:00 PM	SW6010C	5.3	1,200	

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 -mail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 10/29/2009 Page 3 of 7



463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle f. Gross Laboratory Director

Jose Rocha QA Officer

### QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0910412

Project: Richardson Flat

Dept: ME

SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	Analysis %RPD RPD Limit Qualifiers Date
LCS-3618	Arsenic	mg/kg	SW6010C	16	20.00	0	81.8	75-125	10/28/2009
LCS-3618	Lead	mg/kg	SW6010C	19	20.00	1.054	91.1	75-125	10/28/2009

Report Date: 10/29/2009 Page 4 of 7



463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

### QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0910412

Project: Richardson Flat

Dept: ME

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD		Analysis Date
MB-3618	Arsenic	mg/kg	SW6010C	< 5.0				. •		1	0/28/2009
MB-3618	Lead	mg/kg	SW6010C	< 5.0				-		1	0/28/2009

Report Date: 10/29/2009 Page 5 of 7



463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross-Laboratory Director

Jose Rocha QA Officer

#### QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0910412

Project: Richardson Flat

Dept: ME

SampType: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	Analysi %RPD RPD Limit Qualifiers Date	
0910412-001AMS	Arsenic	mg/kg-dry	SW6010C	37	24.93	17.95	75.7	75-125	10/28/20	009
0910412-001AMS	Lead	mg/kg-dry	SW6010C	75	24.93	37.44	150	75-125	<sup>3</sup> 10/28/20	009

<sup>&</sup>lt;sup>1</sup> - Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.

Report Date: 10/29/2009 Page 6 of 7



463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687 e-mail: awal@awal-labs.com, web: www.awal-labs.com Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

### QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0910412

Project: Richardson Flat

Dept: ME

SampType: MSD

Sample ID	Analyte	Uni	ts	Method	Result	Amount Spiked	Original Amount	% REC	Limits	%RPD	RPD Limit	Qualifier	Analysis s Date
0910412-001AMSD	Arsenic	mg/	kg-dry	SW6010C	34	23.86	17.95	68.7	75-125	7.03	20	3	10/28/2009
0910412-001AMSD	Lead	mg/	kg-dry	SW6010C	61	23.86	37.44	99.0	75-125	20.2	20	3	10/28/2009

<sup>3 -</sup> Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.

Report Date: 10/29/2009 Page 7 of 7

**American West Analytical Laboratories** 

#### **WORK ORDER Summary**

28-Oct-09

3-*UCI-UY* 

Work Order: 0910412

WO Type: Standard

Client ID:

UNI100

Contact:

Kerry Gee

Project:

Richardson Flat

QC Level: LEVEL II+

Reviewed by Samantha Broadhead on 10/22/2009

Comments:

2 day RUSH added 10/28/09 per Todd Leeds. RMC client: Email copy of report to Todd Leeds; QC2+;

Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage
0910412-001A	CUBIW-I	10/13/2009	10/22/2009 5:56:49 PM	10/30/2009	Soil	3051A-ICPMS-PR					df - met
	SEL Analytes: AS PB		·	10/30/2009		6010C-S			<b>✓</b>		df - met
				10/30/2009		PMOIST					df - met
910412-002A	SLB1W-1			10/30/2009	· · · · · · · · · · · · · · · · · · ·	3051A-ICPMS-PR					df - met
	SEL Analytes: AS PB			10/30/2009		6010C-S			<b>V</b>		df - met
			· · · · · · · · · · · · · · · · · · ·	10/30/2009		PMOIST					df - met

### American West Analytical Laboratories

### WORK ORDER Summary

22-Oct-09

**Work Order:** 0910412

WO Type: Standard

Client ID:

UNI100

Contact:

Kerry Gee

Project:

Richardson Flat

QC Level: LEVEL II+

Reviewed by on

Comments: F

RMC client: Email copy of report to Todd Leeds; QC2+;

	·			40K-DR								
Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage	
0910412-001A	CUB1W-1	10/13/2009	10/22/2009 5:56:49 PM	1 1/5/2009	Soil	3051A-ICPMS-PR					df - met	
				11/5/2009		6010C-S			V		df - met	
	SEL Analytes: AS PB		•		•		_					_
				11/5/2009		PMOIST					df - met	
0910412-002A	SLB1W-1			11/5/2009		3051A-ICPMS-PR					df - met	
				11/5/2009		6010C-S			<b>V</b>		df - met	<del></del>
	SEL Analytes: AS PB											
				11/5/2009		PMOIST					df - met	

### Laboratory Services Request Form

				<del></del>	<del></del>			
I. CLIENT IN	IFORMATION						SEND REQUESTS	TO:
Client Nam	ne:	UNITED PARK	CITY MINES				American West	
Client Add	ress:	PO BOX 1450	PARK CITY, UT	Г 84060			Analytical Laborat	tories
					-	-	463 W. 3600 South	· [
Client Pho	ne:	435-608-0954					Salt Lake City, U	JT .
Client Fax:	• • • • • • • • • • • • • • • • • • •	435-615-1239	entropy of the second s	The second section of the section of the section	The state and point in a		84115	
II. ACCOUN	IT INFORMATI	iON						
Account N	ame:	<u> </u>		·	· · · · · · · · · · · · · · · · · · ·		Patrick Noteboom	. [
Sample Q	uestions-	Todd Leeds	RMC- 801-255	-2626			Phone # (801) 750-	-2585
	/·L		·	P	. 1	1	Fax (801)-263-868	7
TAT:	Standar				::char	Ison Flat		
III. REPORT	LINSTRUCTIO	NS						
				ODD LEEDS - RM				
							2A, MIDVALE UT 84047	
				Fed Ex ( )	Fax	(X ) Othe	Todd@rmc-ut.com	
Services F	Requested belo	ow are required	no later than	Tuuroonii essi Suore e Laret Arase	Galadar dellajjech fakti	de reversió siltodicies, ciedio	(date)	
CRESIDENCE PRODUCT	yze the enclos	ed environment	tal samples for:	1	Т	<del></del>		
Lab Use				Sampling	No.			
Only		Field Sample		Date & Time	of		Analysis	
Lab No.	0.106	No./Description	<u>n</u>		Cont.	1011	Requested	
	CUBI	$\frac{\omega - 4}{1}$		10/13/09	<u> </u>	$\frac{1}{2}$	.5	
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Received for		7		Date	Time		Yes	No
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Lab Set ID:	0910412	

Samples Were:					Was:				Contair	ner Type:				No	Rec.	
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Ambient		<u> </u>	Un	broke		uter pag			□AWA	L Supplied	Amber C	lass				7
☐ Chilled			. ]	□ Yes		0 1N	/A		□AWA	L Supplied	VOA/TO	C/TOX	Vials			
Temperature (	74.9 °C			Pre	sent on	Sample			☐ Amber ☐ Clear ☐ Headspace ☐ No Headspace						•	
Rec. Broken/Leak	ing Yes No	□ N/A	- 1	□ Yes	אַק	o DN	/A		□ Non A	AWAL Sup	plied Con	tainer				
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Rec. Within Hold	□ Yes _ □ No								Discrep	ancies Bet	ween Lal	els and	COC	۵.	Yes	Ø No
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Bottle Type	Preservative	All pHs OK			<del></del>			-			<del></del>	<del> </del>				<del>  </del>
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>	<del>                                     </del>			<del> </del>		ļ	<del> </del>			- 3.7	<u> </u>	<del> </del>		<u> </u>	
COD	pH <2 H <sub>2</sub> SO <sub>4</sub> PH >12 NaOH	<del>                                     </del>				<u> </u>		╁		<u> </u>			<u> </u>		<del>                                     </del>	<b> </b>
Cyanide Metals	pH <2 HNO <sub>3</sub>	<del>                                     </del>					ļ	<del> </del>				+		<u> </u>		<del> </del>
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>				· · · · · · · · · · · · · · · · · · ·							<del> </del>				
Nutrients	pH <2 H <sub>2</sub> SO <sub>4</sub>	<del>                                     </del>	<del>.   -</del>	- 1	١.,			$\vdash$		<del>-  </del>	<del> </del>	-	<del> </del>	-	<b></b>	<del>  </del>
O & G	pH <2 HCL	\	<del></del> -			· ·	<del>                                     </del>	<del> </del>	<del> </del>		+		<del></del>			
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>	<b>├</b>					-	<del>                                     </del>			<del></del>					
Sulfide	pH > 9NaOH, ZnAC	<del>                                     </del>			<del></del>	1	<del> </del>	<del> </del>			<del></del>	+	<del>                                     </del>		· .	
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>				·	<del> </del>	<del>                                     </del>	<b> </b>			<del></del>	<del></del>	-			
TOC	pH <2 H <sub>3</sub> PO <sub>4</sub>		: \	•		: -		<del>                                     </del>								
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>		. \											<del>-</del>		
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Procedure: 1		nt of sample in the sa			/3	7			.:					:		-
2 3		id gently over wide r paper in the sample b					•					٠.	•			
4	) If sample is not pre-	served properly list it	s extension	and r	eceiving	pH in the	appropriat	te co	lumn abov	/e .		•			•	
5	) Flag COC and notif	y client for further ins	tructions							· ·						
6	) Place client convers	sation on COC djusted at client reque	est					٠,			•					
•	, campios may be ac	ajastou at ollom roque	-	. ,		-										



Kerry Gee

United Park City Mines Co.

PO Box 1450

Park City, UT 84060-

TEL: (435) 608-0954 FAX (435) 615-1239

RE: Richardson Flat

463 West 3600 South Salt Lake City, Utah 84115

Dear Kerry Gee:

Lab Set ID: 0911289

American West Analytical Laboratories received 2 sample(s) on 11/16/2009 for the analyses presented in the following report.

(801) 263-8686 Foll Free (888) 263-8686 Fax (801) 263-8687 Fail: awal@awal-labs.com All analyses were performed in accordance to The NELAC Institute protocols unless noted otherwise. American West Analytical Laboratories is certified by The NELAC Institute in the following states: Utah, Colorado, Idaho, and Texas. Certification document is available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross Laboratory Director The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitaion limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit.

Jose Rocha OA Officer

This is a revised report for a report originally issued 11-17-2009. By client request, Arsenic is being reported.

Thank You,

Approved by:

Laboratory Director or designee

Report Date: 11/17/2009 Page 1 of 7



#### INORGANIC ANALYTICAL REPORT

Client:

United Park City Mines Co.

Contact: Kerry Gee

Project:

Richardson Flat

AMERICAN Lab Sample ID:

0911289-001

WEST

Client Sample ID: RFSL-111609-A

ANALYTICAL LABORATORIES

11/16/2009 11:30:00 AM

Received Date:

Collection Date:

11/16/2009

TOTAL METALS			Method	Reporting	Analytical	
Analytical Results	Units	Date Analyzed	Used	Limit	Result	Qual
Arsenic	mg/kg-dry	11/16/2009 4:29:00 PM	SW6010C	5.7	13	^.
Lead	mg/kg-dry	11/16/2009 4:29:00 PM	SW6010C	5.7	. 77	3

<sup>463</sup> West 3600 South Salt Lake City, Utah 84115

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 mail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 11/17/2009 Page 2 of 7

<sup>^-</sup> Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

<sup>3 -</sup> Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.



#### INORGANIC ANALYTICAL REPORT

Client:

United Park City Mines Co.

Contact: Kerry Gee

Richardson Flat

Project:

Lab Sample ID:

**Collection Date:** 

Received Date:

**AMERICAN** 

0911289-002

WEST

Client Sample ID: RFSL-111609-B 11/16/2009 11:40:00 AM

ANALYTICAL **LABORATORIES** 

11/16/2009

TOTAL METALS  Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/kg-dry	11/16/2009 4:46:00 PM	SW6010C	5.8	14	^
Lead	mg/kg-dry	11/16/2009 4:46:00 PM	SW6010C	5.8	150	

<sup>463</sup> West 3600 South Salt Lake City, Utah 84115

(801) 263-8686 oll Free (888) 263-8686 Fax (801) 263-8687 : awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

> > > Report Date: 11/17/2009 Page 3 of 7

<sup>^ -</sup> Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.



463 West 3600 South Salt Lake City, Utah 84115

(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687

e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

### QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0911289

Project: Richardson Flat

Dept: ME

SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	Analysis %RPD RPD Limit Qualifiers Date
LCS-3899	Arsenic	mg/kg	SW6010C	20	20.00	0	100	75-125	11/16/2009
LCS-3899	Lead	mg/kg	SW6010C	19	20.00	0.1415	93.7	75-125	11/16/2009

Report Date: 11/17/2009 Page 4 of 7



463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Laboratory Director

Jose Rocha QA Officer

### QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0911289

Project: Richardson Flat

Dept: ME

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD RPD Limit Qualifiers	Analysis Date
MB-3899	Arsenic	mg/kg	SW6010C	< 5.0				-	1	11/16/2009
MB-3899	Lead	mg/kg	SW6010C	< 5.0				·-	1	1/16/2009

Report Date: 11/17/2009 Page 5 of 7



463 West 3600 South

Salt Lake City, Utah 84115

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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

## QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0911289

Project: Richardson Flat

Dept: ME

SampType: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit Qualifiers	Analysis Date
0911289-001AMS	Arsenic	mg/kg-dry	SW6010C	37	23.84	13.18	99.0	75-125			11/16/2009
0911289-001AMS	Lead	mg/kg-dry	SW6010C	130	23.84	77.20	235	75-125		3	11/16/2009

<sup>3 -</sup> Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.

Report Date: 11/17/2009 Page 6 of 7



463 West 3600 South
Salt Lake City, Utah 84115
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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Laboratory Director

Jose Rocha QA Officer

### QC SUMMARY REPORT

CLIENT: United Park City Mines Co.

Lab Set ID: 0911289

Project: Richardson Flat

Dept: ME

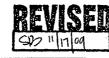
SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limi	t Qualifies	Analysis rs Date
0911289-001AMSD	Arsenic	mg/kg-dry	SW6010C	36	23.07	13.18	101	75-125	1.00	20		11/16/2009
0911289-001AMSD	Lead	mg/kg-dry	SW6010C	89	23.07	77.20	52.6	75-125	39.4	20	. 3	11/16/2009

<sup>1-</sup> Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.

Report Date: 11/17/2009 Page 7 of 7

### **American West Analytical Laboratories**





### WORK ORDER Summary

Add Arsenju per Toold

17-Nov-09

Client ID:

UNI100

Contact:

Kerry Gee

Project:

Richardson Flat

ardson Flat

QC Level: LEVEL II+

Reviewed by Denise Bruun on 11/16/2009

Work Order: 0911289

WO Type: Standard

Comments:

RMC client: Email copy of report to Todd Leeds; QC2+; Next Day Rush; Added As per Todd, 11/17/2009.;

Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage
0911289-001A	RFSL-111609-A	11/16/2009 11:30:00 AM	11/16/2009 1:20:47 PM	11/17/2009	Soil	3051A-ICPMS-PR					df - met
				11/17/2009		6010C-S			<b>V</b>		df - met
	SEL Analytes: AS PB						_			_	
				11/17/2009		PMOIST					df - met
0911289-002A	RFSL-111609-B	11/16/2009 11:40:00 AM		11/17/2009		3051A-ICPMS-PR					df - met
				11/17/2009		6010C-S		П	<b>V</b>	П	df - met
	SEL Analytes: AS PB				•			_	_		
				11/17/2009		PMOIST					df - met

### American West Analytical Laboratories



21/1/109

#### WORK ORDER Summary

.

Client ID:

UNI100

Contact:

Kerry Gee

Project:

Richardson Flat

QC Level: LEVEL ||+

Comments:

RMC client: Email copy of report to Todd Leeds; QC2+; Next Day Rush;

16-Nov-09

Work Order: 0911289

WO Type: Standard

Reviewed by on

		·	·	110.0 (70	401-701							
Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage	
0911289-001A	RFSL-111609-A	11/16/2009 11:30:00 AM	11/16/2009 1:20:47 PM	11/17/2009	Soil	3051A-ICPMS-PR					df - met	<del></del>
				11/17/2009		6010C-S			<b>V</b>		df - met	
	SEL Analytes: PB											
				11/17/2009		PMOIST					df - met	
0911289-002A	RFSL-111609-B	11/16/2009 11:40:00 AM	<del></del>	11/17/2009		3051A-ICPMS-PR					df - met	
				11/17/2009		6010C-S			<b>V</b>		df - met	
	SEL Analytes: PB											
				11/17/2009		PMOIST					df - met	

#### **RMC**

#### Laboratory Services Request Form

0911289

					Terror drawe of monta el		<del></del>						
CLIENT INFORM	IATION					SEND REQUESTS	TO:						
Client Name:	UNITED PARK	CITY MINES	····			American West							
Client Address: _	PO BOX 1450	PARK CITY, UT	84060			Analytical Labora	tories						
				-		463 W. 3600 South	n						
Client Phone:	435-608-0954					Salt Lake City, I	UT						
Client Fax:	435-615-1239					84115							
II ACCOUNT INFO	RWATION												
Account Name: _						Patrick Noteboom	,						
Sample Question		RMC- 801-255	-2626		Phone # (801) 750-2585								
						Fax (801)-263-8687							
TAT:			P.O. No:	Richards	on Flat								
III. REPORT INSTE	RUCTIONS					14.50 (Sec. )							
Report Results To	: KERRY GEE	- UPCM AND TO	DDD LEEDS - RMC	FAX-25	5-3266								
Report Address:	PO BOX 1450 PA	RK CITY UT 84060	AND TODD LEEDS, R	MC, 8138 S.	STATE ST., STE	2A, MIDVALE UT 8404	7						
1	Results By:					Todd@r <u>mc-ut.com</u>							
Services Request	ted below are required	no later than	Kush-a	4h_		(date)							
The state of the state of the state of the state of the state of	VICE REQUESTED			Tax services (C.)									
	e enclosed environmen												
Late Use			Sampling	No.									
<b>Only</b>	Field Sample		Date & Time	of		Analysis							
Lab No	No./Descriptio	n		Cont.		Requested							
RP	5L-111609-A		11/16/09 11:30m	1	Pb x.	- Rush-	2445						
RF:	SL-11609-B		146/09 1190m	1	Pb. "	<del>/</del>							
	·												
					* As add	led per Toold le	eds						
					SPD 11/1								
					_								
notes: Cd de	tection limits must be <	:0:0008 ppm, all	detection limits sh	ould be a	s low as pratic	al.							
W. CHAID OF CU	FIRST CONTRACTOR AND ADDRESS OF THE PARTY OF												
Dispatched by:			Dale	Time		Courier Co. Name							
	K\$1	<del> </del>	, ,	17	6190~	1 '							
Relinquished by:	man of the second	1	Date 11/6/09	10	10	Airbill# .							
Received by:	7		Date 11/16/09	Time 13	,19	Custody Seal Intact?							
Received for lab by:		•	Date (	Time		Ves	No						

19.8

Lab Set ID: \_\_\_

Samples Were:				COC Tape Was:				Container Type:						· N	No. Rec.		
☐ Shipped By:			Present on Outer Package					☐ AWAL Supplied Plastic									
Hand Delivered			☐ Yes ☑ No ☐ N/A				-	□ AWAL Supplied Clear Glass									
☑ Ambient			Un	Unbroken on Outer package						ipplied A							
□ Chilled /			7	□ Yes [	IN₀ ØN	/A				pplied V			Vials				
Temperature \  \ \gamma \ \cdot \ \C					on Sample						1			ace			
Rec. Broken/Leaki	.l	□ N/A	1 .		NO ONE			☐ Amber ☐ Clear ☐ Headspace ☐ No Headspace ☐ Non AWAL Supplied Container							<del></del>		
Notes:	5 0 100 0 1.0		1		n on Samp			Notes:		Зопры							
110000			1		JNo ØN		1				ISK	9					
Properly Preserved	l ØYes □No	□ N/A	Notes				$\neg$								•	1	
Notes:																	
2100001	•		1				1										
Rec. Within Hold	✓ Yes □ No		1					Discre	panci	es Betwo	en Lab	els and	COC .		☐ Yes ☐ No		
Notes:								Notes:									
·							}			, ·						}	
		_ <del></del>	ļ											<del></del>	<del></del>		
	T 20	T 411 77 077	<del></del>	<del> </del>	<del></del>	<del>,</del>	·			·			T: .	<del>.</del>	Ţ <del></del>		
Bottle Type	Preservative	All pHs OK				ļ	├				<del></del>	<del> </del>	·	ļ		<del> </del>	
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>	<u> </u>									<u>. 11 </u>		 	ļ	·	<del> </del>	
COD	pH <2 H <sub>2</sub> SO <sub>4</sub> PH >12 NaOH	<del></del>			<del></del>			<del></del>		1		<del>                                     </del>	<del> </del>	+		<del> </del>	
Cyanide		· · · · · · · · · · · · · · · · · · ·	<del> </del>			<del> </del> -							<del></del>	<del> </del>	ļ		
Metals NO <sub>2</sub> & NO <sub>3</sub>	pH <2 HNO <sub>3</sub> pH <2 H <sub>2</sub> SO <sub>4</sub>				<del> </del>		ļ							-	}	<del>  </del>	
Nutrients	pH <2 H <sub>2</sub> SO <sub>4</sub>			· · · · ·			<del></del>		<del> </del>					<del> </del>			
O & G	pH <2 HCL		<del> </del> -	4 4		· · ·			<del>\-</del> -			-			<del> </del>		
Phenois	pH <2 H <sub>2</sub> SO <sub>4</sub>	<del>                                     </del>	<del>.  </del>	<del></del>	<del>`</del>		<del> </del>	<del></del>						-	<del> </del>		
Sulfide	pH > 9NaOH, ZnAC			+					+		<del></del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del> .	
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>		<del>-  -</del>		<del></del>				+			<u> </u>	<del>                                     </del>	<del>                                     </del>			
TOC	pH <2 H <sub>3</sub> PO <sub>4</sub>		- +-			1	-		-			<del> </del>		. :	<del>                                     </del>		
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>					<del></del>			-					· · · · · · · · · · · · · · · · · · ·			
TPH	pH <2 HCL		.					<u> </u>						1:			
			1			i . i			-1					1			
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							-			· .							
Procedure: 1		nt of sample in the san			:												
2	) Pour sample from to Do Not din the pH	id gently over wide rai paper in the sample bo	ige pH p offle or lid	aper		•				Cian					•		
4	) If sample is not pre	served properly list its	extension	n and receiv	ing pH in the	appropriat	te col	umn abo	ve.	(SM)							
5		fv client for further instr						5 ( ) T	•	•							

6) 7)

Place client conversation on COC
Samples may be adjusted at client request

#### Sami Broadhead

From:

Melanie Humphrey

Sent:

Tuesday, November 17, 2009 1:35 PM

To:

John Williams

Cc:

Rebekah Winkler; Sami Broadhead

Subject:

0911289 As

Todd Leeds just called and he was wondering if he can have the As results to be reported out for 0911289-001 & -002. This was a RUSH due today.

#### -Melanie

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